

No. 5.

From. d. 5259

To d. 5303.

Nest Hydrographic No. 4913

Dredge } No. 5259. Date, 3 June, 1908
Hydrog.

Sdg. Mch. Lucas Reel Lucas Shot } 35 lbs.
Head }

Turns 312 Cor'n. - Depth 312 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample 3 1/2 g.

Character of Bottom gy m. Glob.

Thermom. { Make N.B. Cor'n { Instr. - 24
No. 108023 Stem. - 48

Bottom Reading 50° Cor'd Temp. 49.3

Temp. Surf. { 85° Time 10:30 a } Air { 84.5°
85° Time 10:53 a } 84°

Density: Surf. 1.02489 Bottom fms. 1.02484

Wind: Direction WSW Force 2

Baromet. 29.73 Amt. of Clouds 9 State of Sea S

Weather bc.

Direction and Force of Current { Surface
Bottom

Tide

General Locality Sulu Sea

Caluya Id. (S) S73W - Pucio Pt. (Pancay) S31E.

Position 11°57'30"N - 121°42'15"E.

Chart used: No. 4714 Ed'n -

Drift: Direction N 6° W Distance 1.0 m.

Depth of Haul Bottom.

Apparatus and Rig used 12' Agassiz N.R.; 3 glass floats; 2 wing - & 1 tail weight; mud bag.

Time towing - h. 20 m.

Remarks: Water bottle used in sounding.

Deck Officer W. H. Miller Recorder J. H. Smith

| SOUNDING WIRE. | | | | | | FMS. | DREDGING CABLE. | | | | | |
|----------------|----|----|-----------|----|--------|------|-----------------|----|----|-----------|----|----|
| A. M. Down. | | | Up. A. M. | | | | A. M. Down. | | | Up. A. M. | | |
| 10 | 02 | 45 | 10 | 09 | 10 | 0 | 10 | 14 | 25 | 11 | 05 | 30 |
| | 03 | 40 | | 08 | 25 | 100 | | 19 | 30 | | 02 | 15 |
| | 04 | 35 | | 07 | 55 | 200 | | 23 | 20 | | 58 | 50 |
| | 05 | 35 | | 07 | 15 | 300 | | 26 | 45 | | 55 | 10 |
| 10 | 05 | 45 | 10 | 07 | 10 3/4 | 400 | 10 | 30 | 50 | 10 | 50 | 55 |
| | | | | | | 500 | | | | | | |
| | | | | | | 600 | | | | | | |
| | | | | | | 700 | | | | | | |
| | | | | | | 800 | | | | | | |
| | | | | | | 900 | | | | | | |
| | | | | | | 1000 | | | | | | |
| | | | | | | 1100 | | | | | | |
| | | | | | | 1200 | | | | | | |
| | | | | | | 1300 | | | | | | |
| | | | | | | 1400 | | | | | | |
| | | | | | | 1500 | | | | | | |
| | | | | | | 1600 | | | | | | |
| | | | | | | 1700 | | | | | | |
| | | | | | | 1800 | | | | | | |
| | | | | | | 1900 | | | | | | |
| | | | | | | 2000 | | | | | | |
| | | | | | | 2100 | | | | | | |
| | | | | | | 2200 | | | | | | |
| | | | | | | 2300 | | | | | | |
| | | | | | | 2400 | | | | | | |
| | | | | | | 2500 | | | | | | |
| | | | | | | 2600 | | | | | | |
| | | | | | | 2700 | | | | | | |
| | | | | | | 2800 | | | | | | |
| | | | | | | 2900 | | | | | | |
| | | | | | | 3000 | | | | | | |
| | | | | | | 3100 | | | | | | |
| | | | | | | 3200 | | | | | | |
| | | | | | | 3300 | | | | | | |
| | | | | | | 3400 | | | | | | |
| | | | | | | 3500 | | | | | | |
| | | | | | | 3600 | | | | | | |
| | | | | | | 3700 | | | | | | |
| | | | | | | 3800 | | | | | | |
| | | | | | | 3900 | | | | | | |
| | | | | | | 4000 | | | | | | |
| | | | | | | 4100 | | | | | | |
| | | | | | | 4200 | | | | | | |
| | | | | | | 4300 | | | | | | |
| | | | | | | 4400 | | | | | | |
| | | | | | | 4500 | | | | | | |
| | | | | | | 4600 | | | | | | |
| | | | | | | 4700 | | | | | | |
| | | | | | | 4800 | | | | | | |
| | | | | | | 4900 | | | | | | |

Dredge } No. 5-260 Date, June 3, 1908
Hydrog }

Sdg. Mch. Lucas Reel Lucas Shot/Lead 50 lbs.

Turns 234 Cor'n — Depth 234 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample about 4 oz.

Character of Bottom gn. M.; small amt. of S.

Thermom. { Make T.J. Cor'n { Instr. -24
No. 125023 Stem. -47

Bottom Reading 5-2.1 Cor'd Temp. 51.4

Temp. Surf. { 85.0 Time 3.22 } Air { 85.0
83.0 Time 3.54 } 83.0

Density: Surf. 1.02489 Bottom 1.02484

Wind: Direction S. Ob. Force 3

Baromet. 29.66 Amt. of Clouds 7 to 8 State of Sea S.

Weather bct

Direction and Force of Current { Surface
Bottom

Tide

General Locality Chum Sea E. of Mindoro

Bayallar Pt. 550 W. Bugt. Bala Pt. 7.35 W.

Position 12-25-30 N. 121-31-30 E.

Chart used: No. 4311 Ed'n —

Drift: Direction N. 14 W Distance 2.2

Depth of Haul bottom

Apparatus and Rig used 12' N.R. Agassiz, 3 glass floats, 2 wing weights, 1 tail weight, 1 mud bag.

Time towing h. m.

Remarks:

Deck Officer Mr. Hazard Recorder Chas. Long

| SOUNDING WIRE. | | | | | | FMS. | DREDGING CABLE. | | | | | |
|----------------|----|----|-----------|----|----|------------|-----------------|----|----|-----------|----|----|
| P. M. Down. | | | Up. P. M. | | | | P. M. Down. | | | Up. P. M. | | |
| 3 | 11 | 10 | 3 | 16 | 45 | 0 | 3 | 20 | 30 | 4 | 02 | 30 |
| 3 | 12 | 30 | 3 | 16 | 00 | 100 | 3 | 24 | 00 | 3 | 09 | 15 |
| 3 | 13 | 30 | 3 | 15 | 15 | 200 | 3 | 27 | 35 | 3 | 06 | 00 |
| 3 | 13 | 45 | 3 | 14 | 55 | 234 300 | 3 | 31 | 25 | 3 | 02 | 30 |
| | | | | | | 400 310 | 3 | 31 | 50 | 3 | 51 | 50 |
| | | | | | | 500 | | | | | | |
| | | | | | | 600 | | | | | | |
| | | | | | | 700 | | | | | | |
| | | | | | | 800 | | | | | | |
| | | | | | | 900 | | | | | | |
| | | | | | | 1000 | | | | | | |
| | | | | | | 1100 | | | | | | |
| | | | | | | 1200 | | | | | | |
| | | | | | | 1300 | | | | | | |
| | | | | | | 1400 | | | | | | |
| | | | | | | 1500 | | | | | | |
| | | | | | | 1600 | | | | | | |
| | | | | | | 1700 | | | | | | |
| | | | | | | 1800 | | | | | | |
| | | | | | | 1900 | | | | | | |
| | | | | | | 2000 | | | | | | |
| | | | | | | 2100 | | | | | | |
| | | | | | | 2200 | | | | | | |
| | | | | | | 2300 | | | | | | |
| | | | | | | 2400 | | | | | | |
| | | | | | | 2500 | | | | | | |
| | | | | | | 2600 | | | | | | |
| | | | | | | 2700 | | | | | | |
| | | | | | | 2800 | | | | | | |
| | | | | | | 2900 | | | | | | |
| | | | | | | 3000 | | | | | | |
| | | | | | | 3100 | | | | | | |
| | | | | | | 3200 | | | | | | |
| | | | | | | 3300 | | | | | | |
| | | | | | | 3400 | | | | | | |
| | | | | | | 3500 | | | | | | |
| | | | | | | 3600 | | | | | | |
| | | | | | | 3700 | | | | | | |
| | | | | | | 3800 | | | | | | |
| | | | | | | 3900 | | | | | | |
| | | | | | | 4000 | | | | | | |
| | | | | | | 4100 | | | | | | |
| | | | | | | 4200 | | | | | | |
| | | | | | | 4300 | | | | | | |
| | | | | | | 4400 | | | | | | |
| | | | | | | 4500 | | | | | | |
| | | | | | | 4600 | | | | | | |
| | | | | | | 4700 | | | | | | |
| | | | | | | 4800 | | | | | | |
| | | | | | | 4900 | | | | | | |

Bredge } No. 4912 Date, June 4, 1908
Hydrog. }

Sdg. Mch. JH Reel JH Shot Lead 35 lbs.

Turns 56 Cor'n 56 Depth 56 fms.

Sdg. Cup arming Amt. Bot'm Sample 203

Character of Bottom blue m & s

Thermom. { Make none No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time Air {

Density: Surf. 1.02463 fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality Balanica Pt N 73 W 10 myagant Pt
N 7 E, East Mindoro

Position 12°30' N 121°31' 48" E

Chart used: No. 4311 Ed'n

Drift: Direction 2 Distance 2

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks:

Deck Officer Mr. Cassidy Recorder Roberts

SOUNDING WIRE.

FMS.

DREDGING CABLE.

P. M. DOWN.

UP.

P. M.

M. DOWN.

UP.

M.

5 33 25 5 35 50

5 34 00 5 36 20

56100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. 5261 Date, June 4, 1908
Hydrog. }
Sdg. Mch. Tanner Reel J. N. Shot 35 lbs.
Leads
Turns 150 Cor'n Depth 145 fms.
Sdg. Cup Arming Amt. Bot'm Sample 7 7/8
Character of Bottom m & m
Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____
Bottom Reading _____ Cor'd Temp. _____
Temp. Surf. { 84° Time 6:10 P } Air { 85°
 { 83 Time 6:41 P } { 85°
Density: Surf. 1.0248 fms. _____
Wind: Direction NW Force 2
Baromet. 29.63 Amt. of Clouds 7 State of Sea S
Weather bcg

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality Balanja Pt 1180 W Dmyagan Pt
N 14 W East Mindoro

Position 12° 30' 55" N ~ 121° 34' 24" E

Chart used: No. 4311 C5 Ed'n _____

Drift: Direction 1129 E Distance 1/4

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz N.R. haul net
lined bags 3 glass tubes

Time towing _____ h. 20 m.

Remarks:

Deck Officer Mr. Cassidy Recorder Roberts

| SOUNDING WIRE. | | | FMS. | DREDGING CABLE. | | |
|----------------|-----|----|------|-----------------|-----|----|
| M. Down. | Up. | M. | | M. Down. | Up. | M. |
| 4 | | 10 | 0 | 6 | 10 | 6 |
| 5 | 30 | 6 | 100 | 6 | 10 | 6 |
| 5 | 59 | 30 | 200 | | | |
| | | | 300 | | | |
| | | | 400 | | | |
| | | | 500 | | | |
| | | | 600 | | | |
| | | | 700 | | | |
| | | | 800 | | | |
| | | | 900 | | | |
| | | | 1000 | | | |
| | | | 1100 | | | |
| | | | 1200 | | | |
| | | | 1300 | | | |
| | | | 1400 | | | |
| | | | 1500 | | | |
| | | | 1600 | | | |
| | | | 1700 | | | |
| | | | 1800 | | | |
| | | | 1900 | | | |
| | | | 2000 | | | |
| | | | 2100 | | | |
| | | | 2200 | | | |
| | | | 2300 | | | |
| | | | 2400 | | | |
| | | | 2500 | | | |
| | | | 2600 | | | |
| | | | 2700 | | | |
| | | | 2800 | | | |
| | | | 2900 | | | |
| | | | 3000 | | | |
| | | | 3100 | | | |
| | | | 3200 | | | |
| | | | 3300 | | | |
| | | | 3400 | | | |
| | | | 3500 | | | |
| | | | 3600 | | | |
| | | | 3700 | | | |
| | | | 3800 | | | |
| | | | 3900 | | | |
| | | | 4000 | | | |
| | | | 4100 | | | |
| | | | 4200 | | | |
| | | | 4300 | | | |
| | | | 4400 | | | |
| | | | 4500 | | | |
| | | | 4600 | | | |
| | | | 4700 | | | |
| | | | 4800 | | | |
| | | | 4900 | | | |

Dredge } No. 5767 Date, August, 19
 Hydrog. }
 Sdg. Mch. _____ Reel _____ Shot } _____ lbs.
 Lead }
 Turns _____ Cor'n _____ Depth _____ fms.
 Sdg. Cup _____ Amt. Bot'm Sample _____
 Character of Bottom _____
 Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____
 Bottom Reading _____ Cor'd Temp. _____
 Temp. Surf. { 83 Time 7:37 P } Air { 85
 { _____ Time _____ } { 84
 Density: Surf. 1.02448 _____ fms. _____
 Wind: Direction N.E. Force 2
 Baromet. 29.64 Amt. of Clouds 7 State of Sea _____
 Weather _____
 Direction and Force of Current { Surface _____
 { Bottom _____
 Tide _____
 General Locality East of ...
 Position ...
 Chart used: No. 4714 CS Ed'n _____
 Drift: Direction North Distance .5
 Depth of Haul _____
 Apparatus and Rig used ...
 Time towing _____ h. 70 m.
 Remarks: _____

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

7 57 55 7 57 55

Dredge } No. 15263 Date, 1/10/08, 1908
Hydrog }

Sdg. Mch. _____ Reel _____ Shot } _____ lbs.
Lead }

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make _____ Cor'n { Instr. _____
No. 110 _____ Stem. _____

Bottom Reading 110 _____ Cor'd Temp. _____

Temp. Surf. { 83.0 _____ Time 8:15 _____ } Air { 84.0 _____
Time _____ } _____

Density: Surf. _____ fms. _____

Wind: Direction Variable Force 1

Baromet. 29.5 Amt. of Clouds 1 State of Sea 2

Weather 2nd

Direction and Force of Current { Surface _____
Bottom _____

Tide _____

General Locality _____

Position 12°58'30"N - 121°37'30"W

Chart used: No. 4714 Ed'n _____

Drift: Direction North Distance 0.5

Depth of Haul Est. 65 ft.

Apparatus and Rig used No 5 10' Inter.

with 3.3 lb. net, double cone net.

Time towing _____ h. 20 m.

Remarks: _____

Deck Officer Mr. J. J. _____ Recorder _____

SOUNDING WIRE.

M. Down. Up. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

8 13 30 8 16 30

8 16 30 8 36 30

Dredge } No. 1 Date, June 6, 1906
Hydrog. }
Sdg. Mch. Reel Shot 30 lbs.
Leads }
Turns 120 Cor'n - 9 Depth 181 fms.
Sdg. Cup Amt. Bot'm Sample
Character of Bottom

Thermom. { Make Cor'n { Instr.
No. 1000 Stem.

Bottom Reading used Cor'd Temp.

Temp. Surf. { 84.0 Time 8:35 } Air { 84.1 }
{ 84.0 Time } { }

Density: Surf. 1.02453 fms.

Wind: Direction S Force 2

Baromet. 29.1 Amt. of Clouds State of Sea

Weather bc

Direction and Force of Current { Surface
Bottom

Tide 8.18630'E 7.3 mi.

General Locality

10.240, Matoca Pt. Luz. N. 66 W.

Position 12.240 12.240

Chart used: No. 4240 Ed'n

Drift: Direction 337 Distance 0.4

Depth of Haul bottom

Apparatus and Rig used 12' Dredge

12' Dredge

Time towing 1 h. 4 m.

Remarks: 5 tons white heavy ice.

12' Dredge

12' Dredge

Deck Officer Recorder

| SOUNDING WIRE. | | | | | FMS. | DREDGING CABLE. | | |
|----------------|----|-----|----|----------|------|-----------------|----|----|
| M. Down. | | Up. | M. | M. Down. | | Up. | M. | |
| 5 | 12 | 20 | 8 | 24 | 0 | 5 | 27 | 30 |
| 8 | 16 | 30 | 8 | 21 | 100 | 8 | 30 | 30 |
| 6 | 18 | 30 | 8 | 19 | 200 | 8 | 30 | 30 |
| | | | | | 300 | 8 | 37 | 30 |
| | | | | | 400 | | | |
| | | | | | 500 | | | |
| | | | | | 600 | | | |
| | | | | | 700 | | | |
| | | | | | 800 | | | |
| | | | | | 900 | | | |
| | | | | | 1000 | | | |
| | | | | | 1100 | | | |
| | | | | | 1200 | | | |
| | | | | | 1300 | | | |
| | | | | | 1400 | | | |
| | | | | | 1500 | | | |
| | | | | | 1600 | | | |
| | | | | | 1700 | | | |
| | | | | | 1800 | | | |
| | | | | | 1900 | | | |
| | | | | | 2000 | | | |
| | | | | | 2100 | | | |
| | | | | | 2200 | | | |
| | | | | | 2300 | | | |
| | | | | | 2400 | | | |
| | | | | | 2500 | | | |
| | | | | | 2600 | | | |
| | | | | | 2700 | | | |
| | | | | | 2800 | | | |
| | | | | | 2900 | | | |
| | | | | | 3000 | | | |
| | | | | | 3100 | | | |
| | | | | | 3200 | | | |
| | | | | | 3300 | | | |
| | | | | | 3400 | | | |
| | | | | | 3500 | | | |
| | | | | | 3600 | | | |
| | | | | | 3700 | | | |
| | | | | | 3800 | | | |
| | | | | | 3900 | | | |
| | | | | | 4000 | | | |
| | | | | | 4100 | | | |
| | | | | | 4200 | | | |
| | | | | | 4300 | | | |
| | | | | | 4400 | | | |
| | | | | | 4500 | | | |
| | | | | | 4600 | | | |
| | | | | | 4700 | | | |
| | | | | | 4800 | | | |
| | | | | | 4900 | | | |

Dredge } No. 526 Date, June 6, 1901

Sdg. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth 136 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time 11:28 } Air { 89.4 }
{ 88.0 } Time 11:38

Density: Surf. 1.02489 fms.

Wind: Direction N.W. Force 1

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide High 11:18 172, 3.3 mi.

General Locality

Position 13-41-15 N. 121-00-50 E.

Chart used: No. 4540 Ed'n

Drift: Direction 2.5 mi. Distance 1.0

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz Net, 2

Time towing h. 0 m.

Remarks: Port wing missing

Deck Officer Recorder

| SOUNDING WIRE. | | | FMS. | DREDGING CABLE. | | |
|----------------|-------|----|------|-----------------|-------|----|
| M. Down. | Up. | M. | | M. Down. | Up. | M. |
| 10 48 | 13 10 | 30 | 0 | 11 02 | 11 34 | 40 |
| 10 48 | 13 10 | 30 | 100 | 11 02 | 11 34 | 40 |
| 10 48 | 13 10 | 30 | 200 | 11 02 | 11 34 | 40 |
| 10 48 | 13 10 | 30 | 300 | 11 02 | 11 34 | 40 |
| 10 48 | 13 10 | 30 | 400 | 11 02 | 11 34 | 40 |
| | | | 500 | | | |
| | | | 600 | | | |
| | | | 700 | | | |
| | | | 800 | | | |
| | | | 900 | | | |
| | | | 1000 | | | |
| | | | 1100 | | | |
| | | | 1200 | | | |
| | | | 1300 | | | |
| | | | 1400 | | | |
| | | | 1500 | | | |
| | | | 1600 | | | |
| | | | 1700 | | | |
| | | | 1800 | | | |
| | | | 1900 | | | |
| | | | 2000 | | | |
| | | | 2100 | | | |
| | | | 2200 | | | |
| | | | 2300 | | | |
| | | | 2400 | | | |
| | | | 2500 | | | |
| | | | 2600 | | | |
| | | | 2700 | | | |
| | | | 2800 | | | |
| | | | 2900 | | | |
| | | | 3000 | | | |
| | | | 3100 | | | |
| | | | 3200 | | | |
| | | | 3300 | | | |
| | | | 3400 | | | |
| | | | 3500 | | | |
| | | | 3600 | | | |
| | | | 3700 | | | |
| | | | 3800 | | | |
| | | | 3900 | | | |
| | | | 4000 | | | |
| | | | 4100 | | | |
| | | | 4200 | | | |
| | | | 4300 | | | |
| | | | 4400 | | | |
| | | | 4500 | | | |
| | | | 4600 | | | |
| | | | 4700 | | | |
| | | | 4800 | | | |
| | | | 4900 | | | |

Dredge } No. 5266 Date, June 8, 1908

Hydrog. } Sdg. Mch. Reel 511 Shot 30 lbs.

Turns 110 Cor'n Depth 100 fms.

Sdg. Cup Amt. Bot'm Sample 2.03

Character of Bottom m

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 84 Time 7:17 Air { 85
85 Time 7:20

Density: Surf. 1.02448 fms.

Wind: Direction calm Force 0

Baromet. 27.7 Amt. of Clouds 7 State of Sea 8

Weather very

Direction and Force of Current { Surface Bottom

Tide 7 mi.

General Locality Bulangas Bay

Position 12° 00' N 120° 30' E

Chart used: No. 4540 CS Ed'n

Drift: Direction 71800 Distance 1.1

Depth of Haul 1000

Apparatus and Rig used 1/2

Time towing 20 m.

Remarks:

| SOUNDING WIRE. | | | FMS. | DREDGING CABLE. | | |
|----------------|-----|----|------|-----------------|-----|----|
| M. Down. | Up. | M. | | M. Down. | Up. | M. |
| 90 | 50 | 1 | 0 | 9 | 11 | 30 |
| 90 | 40 | 7 | 100 | 9 | 14 | 30 |
| 9 | 07 | 05 | 200 | 7 | 17 | 30 |
| | | | 300 | | | |
| | | | 400 | | | |
| | | | 500 | | | |
| | | | 600 | | | |
| | | | 700 | | | |
| | | | 800 | | | |
| | | | 900 | | | |
| | | | 1000 | | | |
| | | | 1100 | | | |
| | | | 1200 | | | |
| | | | 1300 | | | |
| | | | 1400 | | | |
| | | | 1500 | | | |
| | | | 1600 | | | |
| | | | 1700 | | | |
| | | | 1800 | | | |
| | | | 1900 | | | |
| | | | 2000 | | | |
| | | | 2100 | | | |
| | | | 2200 | | | |
| | | | 2300 | | | |
| | | | 2400 | | | |
| | | | 2500 | | | |
| | | | 2600 | | | |
| | | | 2700 | | | |
| | | | 2800 | | | |
| | | | 2900 | | | |
| | | | 3000 | | | |
| | | | 3100 | | | |
| | | | 3200 | | | |
| | | | 3300 | | | |
| | | | 3400 | | | |
| | | | 3500 | | | |
| | | | 3600 | | | |
| | | | 3700 | | | |
| | | | 3800 | | | |
| | | | 3900 | | | |
| | | | 4000 | | | |
| | | | 4100 | | | |
| | | | 4200 | | | |
| | | | 4300 | | | |
| | | | 4400 | | | |
| | | | 4500 | | | |
| | | | 4600 | | | |
| | | | 4700 | | | |
| | | | 4800 | | | |
| | | | 4900 | | | |

Dredge } No. 1217 Date, July 8, 1901
Hydrog. }
Sdg. Mch. 5 Reel 577 #Hot Lead 5 lbs.
Turns 175 Cor'n Depth 170 fms.
Sdg. Cup Arapima Amt. Bot'm Sample 2
Character of Bottom blk sh. s. m.

Thermom. { Make Instr.
No. Cor'n Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { Time 10:52 Air { 45
Time

Density: Surf. 1.02448 fms.

Wind: Direction variable Force 0-1

Baromet. 30.26 Amt. of Clouds 6 State of Sea 2

Weather w/

Direction and Force of Current { Surface
Bottom

Tide

General Locality 13-40-20 N 20-28-25 W

Position 13-40-20 N 20-28-25 W

Chart used: No. 1240 Ed'n

Drift: Direction 86 315 Distance 1.3

Depth of Haul bottom

Apparatus and Rig used

Time towing 1 h. 20 m.

Remarks: towing with stopper

Deck Officer W. H. Recorder R. H.

| SOUNDING WIRE. | | | FMS. | DREDGING CABLE. | | |
|----------------|----------|-----|------|-----------------|-------|-------|
| M. Down. | Up. | M. | | A.M. Down. | Up. | A.M. |
| 10 06 15 | 10 17 25 | | 0 | 16 14 | 30 10 | 55 30 |
| 07 00 | 09 50 | | 100 | 18 30 | | 52 10 |
| 07 30 | 10 15 | 175 | 200 | 22 00 | | 48 40 |
| | | | 250 | 25 00 | 10 45 | 00 |
| | | | 300 | | | |
| | | | 400 | | | |
| | | | 500 | | | |
| | | | 600 | | | |
| | | | 700 | | | |
| | | | 800 | | | |
| | | | 900 | | | |
| | | | 1000 | | | |
| | | | 1100 | | | |
| | | | 1200 | | | |
| | | | 1300 | | | |
| | | | 1400 | | | |
| | | | 1500 | | | |
| | | | 1600 | | | |
| | | | 1700 | | | |
| | | | 1800 | | | |
| | | | 1900 | | | |
| | | | 2000 | | | |
| | | | 2100 | | | |
| | | | 2200 | | | |
| | | | 2300 | | | |
| | | | 2400 | | | |
| | | | 2500 | | | |
| | | | 2600 | | | |
| | | | 2700 | | | |
| | | | 2800 | | | |
| | | | 2900 | | | |
| | | | 3000 | | | |
| | | | 3100 | | | |
| | | | 3200 | | | |
| | | | 3300 | | | |
| | | | 3400 | | | |
| | | | 3500 | | | |
| | | | 3600 | | | |
| | | | 3700 | | | |
| | | | 3800 | | | |
| | | | 3900 | | | |
| | | | 4000 | | | |
| | | | 4100 | | | |
| | | | 4200 | | | |
| | | | 4300 | | | |
| | | | 4400 | | | |
| | | | 4500 | | | |
| | | | 4600 | | | |
| | | | 4700 | | | |
| | | | 4800 | | | |
| | | | 4900 | | | |

Dredge } No. 2 Date, June 7, 1911
 Hydrog. }
 Sdg. Mch. K Reel 115 Shot/Lead 35 lbs.
 Turns 170 Cor'n _____ Depth 170 fms.
 Sdg. Cup _____ Amt. Bot'm Sample 2
 Character of Bottom pr. & sh.
 Thermom. { Make _____ Cor'n { Instr. _____
 { No. _____ { Stem. _____
 Bottom Reading _____ Cor'd Temp. _____
 Temp. Surf. { 85.0 Time 11:05 A { 83.0
 { 82.0 Time 11:45 { 80.0
 Density: Surf. 1.02433 fms. _____
 Wind: Direction South Force 1-2
 Baromet. 30.75 Amt. of Clouds 1 State of Sea 5
 Weather b. c.

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

→ 5.8 mi.

General Locality Palangas Bay

Coastal Pt. (Lat. Long.) N 30 W. 10 mi. S. 30 E.

Position 13-43-00 N - 120-11-15 E

Chart used: No. 4240 CS Ed'n _____

Drift: Direction 11 200 Distance 1.0

Depth of Haul Bottom

Apparatus and Rig used Shrimp trawl

Time towing _____ h. 20 m.

Remarks:

Deck Officer J. H. H. H.

Recorder P. H. H. H.

| SOUNDING WIRE. | | | FMS. | DREDGING CABLE. | | |
|----------------|-----|-----|------|-----------------|-------|----|
| M. Down. | Up. | M. | | M. Down. | Up. | M. |
| 51 00 | | | 0 | 53 20 | 11 10 | 00 |
| 57 10 | | | 100 | 67 10 | | 40 |
| 10 58 00 | | 100 | 200 | 10 30 | | 20 |
| | | | 300 | 11 15 | | 00 |
| | | | 400 | | | |
| | | | 500 | | | |
| | | | 600 | | | |
| | | | 700 | | | |
| | | | 800 | | | |
| | | | 900 | | | |
| | | | 1000 | | | |
| | | | 1100 | | | |
| | | | 1200 | | | |
| | | | 1300 | | | |
| | | | 1400 | | | |
| | | | 1500 | | | |
| | | | 1600 | | | |
| | | | 1700 | | | |
| | | | 1800 | | | |
| | | | 1900 | | | |
| | | | 2000 | | | |
| | | | 2100 | | | |
| | | | 2200 | | | |
| | | | 2300 | | | |
| | | | 2400 | | | |
| | | | 2500 | | | |
| | | | 2600 | | | |
| | | | 2700 | | | |
| | | | 2800 | | | |
| | | | 2900 | | | |
| | | | 3000 | | | |
| | | | 3100 | | | |
| | | | 3200 | | | |
| | | | 3300 | | | |
| | | | 3400 | | | |
| | | | 3500 | | | |
| | | | 3600 | | | |
| | | | 3700 | | | |
| | | | 3800 | | | |
| | | | 3900 | | | |
| | | | 4000 | | | |
| | | | 4100 | | | |
| | | | 4200 | | | |
| | | | 4300 | | | |
| | | | 4400 | | | |
| | | | 4500 | | | |
| | | | 4600 | | | |
| | | | 4700 | | | |
| | | | 4800 | | | |
| | | | 4900 | | | |

11—1023

| SOUNDING WIRE. | | | | FMS. | DREDGING CABLE. | | | |
|----------------|---------|----|--|------|-----------------|---------|----|--|
| M. Down. | Up. | M. | | | M. Down. | Up. | M. | |
| 1 04 17 | 1 15 00 | | | 0 | 1 19 40 | 2 09 50 | | |
| 05 40 | 11 50 | | | 100 | 23 00 | 06 20 | | |
| 07 10 | 08 40 | | | 200 | 26 00 | 01 50 | | |
| 1 07 50 | 1 08 00 | 22 | | 300 | 29 15 | 57 10 | | |
| | | | | 400 | 32 30 | 55 30 | | |
| | | | | 450 | 34 00 | 54 00 | | |
| | | | | 500 | | | | |
| | | | | 600 | | | | |
| | | | | 700 | | | | |
| | | | | 800 | | | | |
| | | | | 900 | | | | |
| | | | | 1000 | | | | |
| | | | | 1100 | | | | |
| | | | | 1200 | | | | |
| | | | | 1300 | | | | |
| | | | | 1400 | | | | |
| | | | | 1500 | | | | |
| | | | | 1600 | | | | |
| | | | | 1700 | | | | |
| | | | | 1800 | | | | |
| | | | | 1900 | | | | |
| | | | | 2000 | | | | |
| | | | | 2100 | | | | |
| | | | | 2200 | | | | |
| | | | | 2300 | | | | |
| | | | | 2400 | | | | |
| | | | | 2500 | | | | |
| | | | | 2600 | | | | |
| | | | | 2700 | | | | |
| | | | | 2800 | | | | |
| | | | | 2900 | | | | |
| | | | | 3000 | | | | |
| | | | | 3100 | | | | |
| | | | | 3200 | | | | |
| | | | | 3300 | | | | |
| | | | | 3400 | | | | |
| | | | | 3500 | | | | |
| | | | | 3600 | | | | |
| | | | | 3700 | | | | |
| | | | | 3800 | | | | |
| | | | | 3900 | | | | |
| | | | | 4000 | | | | |
| | | | | 4100 | | | | |
| | | | | 4200 | | | | |
| | | | | 4300 | | | | |
| | | | | 4400 | | | | |
| | | | | 4500 | | | | |
| | | | | 4600 | | | | |
| | | | | 4700 | | | | |
| | | | | 4800 | | | | |
| | | | | 4900 | | | | |

Dredge } No. 5270 Date, 8 June, 1908
Hydrog. }

Sdg. Mch. T. 9 Reel Shot Lead 55 lbs.

Turns 270 Cor'n Depth 235 fms.

Sdg. Cup Mining Amt. Bot'm Sample Trace

Character of Bottom gy. S. bk. ss.

Thermom. { Make N. 3. Cor'n { Instr. - .24
No. 108023 Stem. - .87

Bottom Reading 50.2 Cor'd Temp. 49.5

Temp. Surf. { 84.2 Time 3:20.2 } Air { 80.0
83.0 Time 3:50.2 } 80.5

Density: Surf. 1.02448 fms.

Wind: Direction SE-WSW Force 3-4

Baromet. 29.68 Amt. of Clouds 7 State of Sea C

Weather bcg

Direction and Force of Current { Surface
Bottom

Tide 4.25 mi.

General Locality Vineyard Sound

Assurance Id. S 9 E - Vine Id. (S) 57 E

Position 43° 35' 45" N = 120° 58' 20" W

Chart used: No. 4240 Ed'n -

Drift: Direction SE 10 Distance 1.0

Depth of Haul 500-1000

Apparatus and Rig used 10' beam trawl; 2 1/2 inch mesh

Time 2002

Time towing - h. 20 m.

Remarks: 7 tr. hauls up to 1000 ft
20 specimens (specimens) (specimens)

Deck Officer Mr. T. J. ...

Recorder J. ...

| SOUNDING WIRE. | | | FMS. | DREDGING CABLE. | | |
|----------------|-------------|----|------|-----------------|---------|----|
| P. M. Down. | Up. | M. | | P. M. Down. | Up. | M. |
| 3 04 00 | 3 15 30 | | 0 | 3 20 20 | 3 55 00 | |
| 05 00 | 12 25 | | 100 | 23 30 | 51 00 | |
| 06 00 | 24 15 | | 200 | 3 27 00 | 37 00 | |
| 3 06 50 | 3 07 20 270 | | 300 | | | |
| | | | 400 | | | |
| | | | 500 | | | |
| | | | 600 | | | |
| | | | 700 | | | |
| | | | 800 | | | |
| | | | 900 | | | |
| | | | 1000 | | | |
| | | | 1100 | | | |
| | | | 1200 | | | |
| | | | 1300 | | | |
| | | | 1400 | | | |
| | | | 1500 | | | |
| | | | 1600 | | | |
| | | | 1700 | | | |
| | | | 1800 | | | |
| | | | 1900 | | | |
| | | | 2000 | | | |
| | | | 2100 | | | |
| | | | 2200 | | | |
| | | | 2300 | | | |
| | | | 2400 | | | |
| | | | 2500 | | | |
| | | | 2600 | | | |
| | | | 2700 | | | |
| | | | 2800 | | | |
| | | | 2900 | | | |
| | | | 3000 | | | |
| | | | 3100 | | | |
| | | | 3200 | | | |
| | | | 3300 | | | |
| | | | 3400 | | | |
| | | | 3500 | | | |
| | | | 3600 | | | |
| | | | 3700 | | | |
| | | | 3800 | | | |
| | | | 3900 | | | |
| | | | 4000 | | | |
| | | | 4100 | | | |
| | | | 4200 | | | |
| | | | 4300 | | | |
| | | | 4400 | | | |
| | | | 4500 | | | |
| | | | 4600 | | | |
| | | | 4700 | | | |
| | | | 4800 | | | |
| | | | 4900 | | | |

Dredge } No. 5271 Date, Aug 14, 1908
Hydrog. }

Sdg. Mch. _____ Reel _____ Shot } 50 lbs.
Lead }

Turns _____ Cor'n _____ Depth _____ fms.

Sdg. Cup *Ligula* Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make *N. J.* Cor'n { Instr. _____
 { No. *105023* ✓ { Stem. _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { _____ Time _____ } Air { _____
 { _____ Time _____ }

Density: Surf. _____ fms. _____

Wind: Direction _____ Force _____

Baromet. _____ Amt. of Clouds _____ State of Sea _____

Weather _____

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position _____

Chart used: No. _____ Ed'n _____

Drift: Direction _____ Distance _____

Depth of Haul _____

Apparatus and Rig used _____

Time towing _____ h. _____ m.

Remarks: *Ran out 70 fathoms and dredging. Haul out
turns. Every thing carried away
at hauling, including water
bottle, thermometer, Ligula dredge
cup, & shot. Shot & wire
stay had got a rough tow
and water bottle.*

Deck Officer *Mr. T. J. ...* Recorder _____

| SOUNDING WIRE. | | | FMS. | DREDGING CABLE. | | |
|----------------|-----|----|------|-----------------|-----|----|
| M. Down. | Up. | M. | | M. Down. | Up. | M. |
| | | | 0 | | | |
| | | | 100 | | | |
| | | | 200 | | | |
| | | | 300 | | | |
| | | | 400 | | | |
| | | | 500 | | | |
| | | | 600 | | | |
| | | | 700 | | | |
| | | | 800 | | | |
| | | | 900 | | | |
| | | | 1000 | | | |
| | | | 1100 | | | |
| | | | 1200 | | | |
| | | | 1300 | | | |
| | | | 1400 | | | |
| | | | 1500 | | | |
| | | | 1600 | | | |
| | | | 1700 | | | |
| | | | 1800 | | | |
| | | | 1900 | | | |
| | | | 2000 | | | |
| | | | 2100 | | | |
| | | | 2200 | | | |
| | | | 2300 | | | |
| | | | 2400 | | | |
| | | | 2500 | | | |
| | | | 2600 | | | |
| | | | 2700 | | | |
| | | | 2800 | | | |
| | | | 2900 | | | |
| | | | 3000 | | | |
| | | | 3100 | | | |
| | | | 3200 | | | |
| | | | 3300 | | | |
| | | | 3400 | | | |
| | | | 3500 | | | |
| | | | 3600 | | | |
| | | | 3700 | | | |
| | | | 3800 | | | |
| | | | 3900 | | | |
| | | | 4000 | | | |
| | | | 4100 | | | |
| | | | 4200 | | | |
| | | | 4300 | | | |
| | | | 4400 | | | |
| | | | 4500 | | | |
| | | | 4600 | | | |
| | | | 4700 | | | |
| | | | 4800 | | | |
| | | | 4900 | | | |

Dredge } No. 4-271 Can. Date, Jan 11, 1901

Sdg. Mch. Reel Shot Lead 35 lbs.

Turns Cor'n Depth 56 fms.

Sdg. Cup Amt. Bot'm Sample Shuttled

Character of Bottom S

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 85.0 Time 8.16 } Air { 83.0 82.5

Density: Surf. 1.02552 fms.

Wind: Direction S. By E Force 3

Baromet. 29.68 Amt. of Clouds 8 State of Sea G

Weather

Direction and Force of Current { Surface Bottom

Tide Corregido B. 11/18° 30' E., 20.7 mi.

General Locality

Position 14° 05' 00" N. 120° 27' 45" E.

Chart used: No. 4240 Ed'n Feb. 1900.

Drift: Direction S. Distance 7 mi.

Depth of Haul Bottoms

Apparatus and Rig used 12' ...

tail weight

Time towing h. 15 m.

Remarks:

| SOUNDING WIRE. | | | FMS. | DREDGING CABLE. | | |
|----------------|---------|----|------|-----------------|--------|----|
| M. Down. | Up. | M. | | M. Down. | Up. | M. |
| 8 07 40 | 5 10 0 | | 0 | 8 16 00 | 8 00 0 | |
| 8 02 10 | 5 08 10 | 56 | 400 | 8 15 30 | 8 00 0 | 5 |
| | | | 110 | | | |
| | | | 200 | 8 19 30 | | |
| | | | 300 | 8 29 30 | 8 00 0 | 45 |
| | | | 400 | | | |
| | | | 500 | | | |
| | | | 600 | | | |
| | | | 700 | | | |
| | | | 800 | | | |
| | | | 900 | | | |
| | | | 1000 | | | |
| | | | 1100 | | | |
| | | | 1200 | | | |
| | | | 1300 | | | |
| | | | 1400 | | | |
| | | | 1500 | | | |
| | | | 1600 | | | |
| | | | 1700 | | | |
| | | | 1800 | | | |
| | | | 1900 | | | |
| | | | 2000 | | | |
| | | | 2100 | | | |
| | | | 2200 | | | |
| | | | 2300 | | | |
| | | | 2400 | | | |
| | | | 2500 | | | |
| | | | 2600 | | | |
| | | | 2700 | | | |
| | | | 2800 | | | |
| | | | 2900 | | | |
| | | | 3000 | | | |
| | | | 3100 | | | |
| | | | 3200 | | | |
| | | | 3300 | | | |
| | | | 3400 | | | |
| | | | 3500 | | | |
| | | | 3600 | | | |
| | | | 3700 | | | |
| | | | 3800 | | | |
| | | | 3900 | | | |
| | | | 4000 | | | |
| | | | 4100 | | | |
| | | | 4200 | | | |
| | | | 4300 | | | |
| | | | 4400 | | | |
| | | | 4500 | | | |
| | | | 4600 | | | |
| | | | 4700 | | | |
| | | | 4800 | | | |
| | | | 4900 | | | |

Dredge } No. 5272 Date, (14) , 1908
Hydrog. }

Sdg. Mch. Reel Shot
Lead lbs.

Turns 121 Cor'n - 3 Depth 118 fms.

Sdg. Cup bottom on ice Amt. Bot'm Sample

Character of Bottom M. sh. C.

Thermom. { Make H. J. Cor'n { Instr. - 19
No. 108013 Stem. - 44

Bottom Reading 3-8° Cor'd Temp. 57.4

Temp. Surf. { 84° Time 9 41 } Air { 83°
84° Time 10 15 } 83°

Density: Surf. 1.02453 fms.

Wind: Direction S.W. Force 3

Baromet. 27.1 Amt. of Clouds 5 State of Sea 4

Weather fog

Direction and Force of Current { Surface
Bottom

Tide 10.00 N 27° E, 25.50 m.

General Locality Station 52

Position Lat 14° 00' 00" N, Long 12° 10' 00" W

Chart used: No. 4240 Ed'n

Drift: Direction S. 37° E. Distance 3 mi

Depth of Haul bottom

Apparatus and Rig used 12' trawling, 3 glass floats

2 swimming weights, 1 tail weight

Time towing 26 1/3 m.

Remarks:

Deck Officer J. H. Recorder E. E.

| SOUNDING WIRE. | | | FMS. | DREDGING CABLE. | | |
|----------------|------------|----|------|-----------------|-------|----|
| M. Down. | Up. | M. | | M. Down. | Up. | M. |
| 9 30 30 | 9 36 20 | | 0 | 9 33 00 | 10 19 | |
| 9 31 30 | 9 32 50 | | 100 | 9 35 30 | 10 15 | |
| 9 31 | 9 32 10 12 | | 200 | 9 37 30 | 10 10 | |
| | | | 300 | 9 42 30 | | |
| | | | 400 | 10 05 10 | 10 09 | 10 |
| | | | 500 | | | |
| | | | 600 | | | |
| | | | 700 | | | |
| | | | 800 | | | |
| | | | 900 | | | |
| | | | 1000 | | | |
| | | | 1100 | | | |
| | | | 1200 | | | |
| | | | 1300 | | | |
| | | | 1400 | | | |
| | | | 1500 | | | |
| | | | 1600 | | | |
| | | | 1700 | | | |
| | | | 1800 | | | |
| | | | 1900 | | | |
| | | | 2000 | | | |
| | | | 2100 | | | |
| | | | 2200 | | | |
| | | | 2300 | | | |
| | | | 2400 | | | |
| | | | 2500 | | | |
| | | | 2600 | | | |
| | | | 2700 | | | |
| | | | 2800 | | | |
| | | | 2900 | | | |
| | | | 3000 | | | |
| | | | 3100 | | | |
| | | | 3200 | | | |
| | | | 3300 | | | |
| | | | 3400 | | | |
| | | | 3500 | | | |
| | | | 3600 | | | |
| | | | 3700 | | | |
| | | | 3800 | | | |
| | | | 3900 | | | |
| | | | 4000 | | | |
| | | | 4100 | | | |
| | | | 4200 | | | |
| | | | 4300 | | | |
| | | | 4400 | | | |
| | | | 4500 | | | |
| | | | 4600 | | | |
| | | | 4700 | | | |
| | | | 4800 | | | |
| | | | 4900 | | | |

11-10723

| SOUNDING WIRE. | | | FMS. | DREDGING CABLE. | | |
|----------------|----------|-------|------|-----------------|----------|-------|
| M. Down. | Up. | P. M. | | M. Down. | Up. | P. M. |
| 10 32 20 | 10 32 20 | | 0 | 10 37 00 | 11 27 30 | |
| 10 33 15 | 10 34 10 | | 100 | 10 41 40 | 11 22 00 | |
| 10 33 30 | 10 33 40 | | 200 | 10 45 50 | 11 15 20 | |
| | | | 300 | 10 45 10 | | |
| | | | 400 | 10 47 00 | 11 17 00 | |
| | | | 500 | | | |
| | | | 600 | | | |
| | | | 700 | | | |
| | | | 800 | | | |
| | | | 900 | | | |
| | | | 1000 | | | |
| | | | 1100 | | | |
| | | | 1200 | | | |
| | | | 1300 | | | |
| | | | 1400 | | | |
| | | | 1500 | | | |
| | | | 1600 | | | |
| | | | 1700 | | | |
| | | | 1800 | | | |
| | | | 1900 | | | |
| | | | 2000 | | | |
| | | | 2100 | | | |
| | | | 2200 | | | |
| | | | 2300 | | | |
| | | | 2400 | | | |
| | | | 2500 | | | |
| | | | 2600 | | | |
| | | | 2700 | | | |
| | | | 2800 | | | |
| | | | 2900 | | | |
| | | | 3000 | | | |
| | | | 3100 | | | |
| | | | 3200 | | | |
| | | | 3300 | | | |
| | | | 3400 | | | |
| | | | 3500 | | | |
| | | | 3600 | | | |
| | | | 3700 | | | |
| | | | 3800 | | | |
| | | | 3900 | | | |
| | | | 4000 | | | |
| | | | 4100 | | | |
| | | | 4200 | | | |
| | | | 4300 | | | |
| | | | 4400 | | | |
| | | | 4500 | | | |
| | | | 4600 | | | |
| | | | 4700 | | | |
| | | | 4800 | | | |
| | | | 4900 | | | |

11 102.5

SOUNDING WIRE.

M. Down. Up. L.M.

9 8.50 7 22.40
 13 10 22.00
 12 05 21.20
 15 10 20.40
 16 10 20.05
 17 15 19.25
 9 17 50 4 18 30.45

FMS.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

DREDGING CABLE.

M. Down. Up. L.M.

9 27 15 1 07 30
 31 10 11 03 30
 30 11 02 30
 38 30 56 10
 41 20 52 30
 11 11 43 30
 51 30 37 00
 55 30 34 30
 9 59 00 10 29 00

Dredge } No. 23 Date, 1/2/08, 1908
Hydrog }

Sdg. Mch. V. M. Reel V. S. Shot Lead 20 lbs.

Turns 120 Cor'n 120 = 117 Depth 117 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom fine S.

Thermom. { Make } _____
 { No. } _____

Cor'n { Instr. } _____
 { Stem. } _____

Bottom Reading _____ Cor'd Temp. _____

Temp. Surf. { 82° Time 12:57 } Air { 82°
84° Time 1:35 } 82°

Density: Surf. 1.02453 fms.

Wind: Direction SSW Force 3-4

Baromet. 29.61 Amt. of Clouds 10 State of Sea C

Weather *009*

| | | | |
|------------------------------------|---|---------|-------|
| Direction and Force of Current. | { | Surface | |
| | | Bottom | |

Tide..... 6.01 - 6.18 a.m.

General Locality *Chimney, Gen. B. Loc. 1000, 1001*

Q. 22 (17) S. 36 E. - I. n. 177

Position $13^{\circ}55'55''$ - $120^{\circ}15''$

Chart used: No. 621 Ed'n 1

Drift: Direction *075* Distance *1.5*

Depth of Haul 1000 fms.

Apparatus and Rig used.

Time towing _____ h. 20 m.

Remarks: [Illegible handwritten notes]

Deck Officer _____ Recorder _____

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down.

Up.

M.

M. Down.

Up.

M.

| | | | | | | | | | | |
|----|----|----|----|----|------|----|----|----|----|----|
| 12 | 14 | 10 | 17 | 54 | 0 | 12 | 14 | 10 | 17 | 54 |
| | 50 | 10 | | 51 | 100 | | 56 | 40 | | 28 |
| 12 | 50 | 30 | 17 | 55 | 200 | | 59 | 20 | | 25 |
| | | | | | 300 | 1 | 01 | 00 | | |
| | | | | | 400 | 1 | 05 | 00 | 1 | 21 |
| | | | | | 500 | | | | | 20 |
| | | | | | 600 | | | | | |
| | | | | | 700 | | | | | |
| | | | | | 800 | | | | | |
| | | | | | 900 | | | | | |
| | | | | | 1000 | | | | | |
| | | | | | 1100 | | | | | |
| | | | | | 1200 | | | | | |
| | | | | | 1300 | | | | | |
| | | | | | 1400 | | | | | |
| | | | | | 1500 | | | | | |
| | | | | | 1600 | | | | | |
| | | | | | 1700 | | | | | |
| | | | | | 1800 | | | | | |
| | | | | | 1900 | | | | | |
| | | | | | 2000 | | | | | |
| | | | | | 2100 | | | | | |
| | | | | | 2200 | | | | | |
| | | | | | 2300 | | | | | |
| | | | | | 2400 | | | | | |
| | | | | | 2500 | | | | | |
| | | | | | 2600 | | | | | |
| | | | | | 2700 | | | | | |
| | | | | | 2800 | | | | | |
| | | | | | 2900 | | | | | |
| | | | | | 3000 | | | | | |
| | | | | | 3100 | | | | | |
| | | | | | 3200 | | | | | |
| | | | | | 3300 | | | | | |
| | | | | | 3400 | | | | | |
| | | | | | 3500 | | | | | |
| | | | | | 3600 | | | | | |
| | | | | | 3700 | | | | | |
| | | | | | 3800 | | | | | |
| | | | | | 3900 | | | | | |
| | | | | | 4000 | | | | | |
| | | | | | 4100 | | | | | |
| | | | | | 4200 | | | | | |
| | | | | | 4300 | | | | | |
| | | | | | 4400 | | | | | |
| | | | | | 4500 | | | | | |
| | | | | | 4600 | | | | | |
| | | | | | 4700 | | | | | |
| | | | | | 4800 | | | | | |
| | | | | | 4900 | | | | | |

11-14623

| SOUNDING WIRE. | | | | | | FMS. | DREDGING CABLE. | | |
|----------------|----|----|-----|------|----|------|-----------------|-----|--------|
| ⓧ M. Down. | | | Up. | ⓧ M. | | | --- M. Down. | Up. | --- M. |
| 1 | 26 | 50 | 1 | 32 | 10 | 0 | | | |
| | 27 | 50 | | 38 | 15 | 100 | | | |
| 1 | 28 | 00 | 1 | 28 | 10 | 200 | | | |
| | | | | | | 300 | | | |
| | | | | | | 400 | | | |
| | | | | | | 500 | | | |
| | | | | | | 600 | | | |
| | | | | | | 700 | | | |
| | | | | | | 800 | | | |
| | | | | | | 900 | | | |
| | | | | | | 1000 | | | |
| | | | | | | 1100 | | | |
| | | | | | | 1200 | | | |
| | | | | | | 1300 | | | |
| | | | | | | 1400 | | | |
| | | | | | | 1500 | | | |
| | | | | | | 1600 | | | |
| | | | | | | 1700 | | | |
| | | | | | | 1800 | | | |
| | | | | | | 1900 | | | |
| | | | | | | 2000 | | | |
| | | | | | | 2100 | | | |
| | | | | | | 2200 | | | |
| | | | | | | 2300 | | | |
| | | | | | | 2400 | | | |
| | | | | | | 2500 | | | |
| | | | | | | 2600 | | | |
| | | | | | | 2700 | | | |
| | | | | | | 2800 | | | |
| | | | | | | 2900 | | | |
| | | | | | | 3000 | | | |
| | | | | | | 3100 | | | |
| | | | | | | 3200 | | | |
| | | | | | | 3300 | | | |
| | | | | | | 3400 | | | |
| | | | | | | 3500 | | | |
| | | | | | | 3600 | | | |
| | | | | | | 3700 | | | |
| | | | | | | 3800 | | | |
| | | | | | | 3900 | | | |
| | | | | | | 4000 | | | |
| | | | | | | 4100 | | | |
| | | | | | | 4200 | | | |
| | | | | | | 4300 | | | |
| | | | | | | 4400 | | | |
| | | | | | | 4500 | | | |
| | | | | | | 4600 | | | |
| | | | | | | 4700 | | | |
| | | | | | | 4800 | | | |
| | | | | | | 4900 | | | |

Dredge } No. 4240 Date, Aug 17, 1912

Hydrog. }
Sdg. Mch. Reel Shot Lead lbs.

Turns 15 Cor'n — Depth 15 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make No. Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 82° Time 8:47 } Air { 80°
Time 8:47

Density: Surf. X not taken fms.

Wind: Direction S. by E. Force 3

Baromet. 29.64 Amt. of Clouds 10 State of Sea C.

Weather cal.

Direction and Force of Current { Surface Bottom

Tide

8.1 (N.W.) N 61° 30' E., 6.5 m (W)

General Locality

Position 12° 49' 15" N; 120° 14' 45" E

Chart used: No. 4240 Ed'n

Drift: Direction 7.2 Distance 7.2

Depth of Haul Bottom

Apparatus and Rig used

Trawl used

Time towing h. 1.5 m.

Remarks: Trawl used

SOUNDING WIRE.

| Q M. Down. | Up. | Q. M. |
|------------|-----|-------|
| 8 43 10 | | |
| 8 44 20 | | |

FMS.

DREDGING CABLE.

| Q M. Down. | Up. | Q. M. |
|------------|---------|-------|
| 8 51 20 | 9 03 40 | |

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

Dredge } No. 5277 Date, July 1, 19
 Hydros. }
 Sdg. Mch. Tanner Reel Shot Lead 55 lbs.
 Turns 81 Cor'n — Depth 80 fms.
 Sdg. Cup Amt. Bot'm Sample
 Character of Bottom
 Thermom. { Make M. Z. Cor'n { Instr. - .2
 { No. 108013 { Stem. - .41
 Bottom Reading 59.2 Cor'd Temp. 58.6
 Temp. Surf. { 53° Time 10:11 } Air { 82°
 { Time " } {
 Density: Surf. 1.02442 fms. 1
 Wind: Direction S. S. W. Force 4
 Baromet. 29.64 Amt. of Clouds 10 State of Sea C
 Weather B

Direction and Force of Current { Surface
 { Bottom

Tide

High Water 9.41 A.M. S. 86° E. 3.1 miles

General Locality (Lat. 13° 4' 55" N.; Long. 120° 13' 45" E.)

Ad (20) S. 86° E. 3.1 miles

Position 13° 4' 55" N. 120° 13' 45" E.
[45]

Chart used: No. 4240 Ed'n

Drift: Direction S. 70° E. Distance 1.2 miles

Depth of Haul Bottom

Apparatus and Rig used 12' 3" beam trawl

2 towing

Time towing h. 10³¹ m.

Remarks:

Deck Officer Recorder

| SOUNDING WIRE. | | | FMS. | DREDGING CABLE. | | |
|--------------------|----------|--------------|------|--------------------|----------|--------------|
| <i>A. M.</i> Down. | Up. | <i>A. M.</i> | | <i>A. M.</i> Down. | Up. | <i>A. M.</i> |
| 10 01 50 | 10 06 20 | | 0 | 10 08 35 | 10 49 30 | |
| 10 02 55 | 10 03 15 | | 100 | 10 12 15 | 10 45 25 | |
| | | | 200 | 10 15 20 | 10 42 15 | |
| | | | 300 | 10 18 35 | 10 39 00 | |
| | | | 400 | 10 18 45 | 10 38 30 | |
| | | | 500 | | | |
| | | | 600 | | | |
| | | | 700 | | | |
| | | | 800 | | | |
| | | | 900 | | | |
| | | | 1000 | | | |
| | | | 1100 | | | |
| | | | 1200 | | | |
| | | | 1300 | | | |
| | | | 1400 | | | |
| | | | 1500 | | | |
| | | | 1600 | | | |
| | | | 1700 | | | |
| | | | 1800 | | | |
| | | | 1900 | | | |
| | | | 2000 | | | |
| | | | 2100 | | | |
| | | | 2200 | | | |
| | | | 2300 | | | |
| | | | 2400 | | | |
| | | | 2500 | | | |
| | | | 2600 | | | |
| | | | 2700 | | | |
| | | | 2800 | | | |
| | | | 2900 | | | |
| | | | 3000 | | | |
| | | | 3100 | | | |
| | | | 3200 | | | |
| | | | 3300 | | | |
| | | | 3400 | | | |
| | | | 3500 | | | |
| | | | 3600 | | | |
| | | | 3700 | | | |
| | | | 3800 | | | |
| | | | 3900 | | | |
| | | | 4000 | | | |
| | | | 4100 | | | |
| | | | 4200 | | | |
| | | | 4300 | | | |
| | | | 4400 | | | |
| | | | 4500 | | | |
| | | | 4600 | | | |
| | | | 4700 | | | |
| | | | 4800 | | | |
| | | | 4900 | | | |

Dredge } No. 5225 Date, , 19

Hydrog. }
Sdg. Mch. Tur Reel Shot/Lead lbs.

Turns 102 Cor'n Depth fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom fine silt

Thermom. { Make N.Y. Cor'n { Instr. -0.2
No. 108013 Stem. -0.37

Bottom Reading 60.2 Cor'd Temp. 59.6

Temp. Surf. { 82° Time 11:43 a } Air { 81.5°
50° Time 12:01 p }

Density: Surf. 1.02457 fms.

Wind: Direction S.W. Force 4

Baromet. 30.1 Amt. of Clouds 9 State of Sea

Weather B. & P.

Direction and Force of Current { Surface
Bottom

Tide 8.5 mi.

General Locality

Position 10 11 12 13 14 15

Chart used: No. 43 Ed'n

Drift: Direction S. 80 E. Distance .6

Depth of Haul bottom

Apparatus and Rig used

Time towing 1.04 hr.

Remarks: Thermometer registered as high as
100° F. at surface. No bottom reached.
Sediment, mud, sand, shells, etc.

Deck Officer Recorder

| SOUNDING WIRE. | | | | FMS. | DREDGING CABLE. | | | |
|-------------------|----------|-------------|--|------|-------------------|----------|-------------|--|
| <u>9</u> M. Down. | Up. | <u>2</u> M. | | | <u>A</u> M. Down. | Up. | <u>2</u> M. | |
| 11 32 35 | 11 33 35 | | | 0 | 11 42 | | 11 43 | |
| 11 33 35 | 11 34 35 | | | 100 | 11 43 35 | | 11 44 35 | |
| 11 33 35 | 11 34 35 | | | 200 | 11 44 35 | 11 45 35 | 11 46 35 | |
| | | | | 300 | 11 45 35 | 11 46 35 | 11 47 35 | |
| | | | | 400 | 11 46 35 | 11 47 35 | 11 48 35 | |
| | | | | 500 | 11 47 35 | 11 48 35 | 11 49 35 | |
| | | | | 600 | | | | |
| | | | | 700 | | | | |
| | | | | 800 | | | | |
| | | | | 900 | | | | |
| | | | | 1000 | | | | |
| | | | | 1100 | | | | |
| | | | | 1200 | | | | |
| | | | | 1300 | | | | |
| | | | | 1400 | | | | |
| | | | | 1500 | | | | |
| | | | | 1600 | | | | |
| | | | | 1700 | | | | |
| | | | | 1800 | | | | |
| | | | | 1900 | | | | |
| | | | | 2000 | | | | |
| | | | | 2100 | | | | |
| | | | | 2200 | | | | |
| | | | | 2300 | | | | |
| | | | | 2400 | | | | |
| | | | | 2500 | | | | |
| | | | | 2600 | | | | |
| | | | | 2700 | | | | |
| | | | | 2800 | | | | |
| | | | | 2900 | | | | |
| | | | | 3000 | | | | |
| | | | | 3100 | | | | |
| | | | | 3200 | | | | |
| | | | | 3300 | | | | |
| | | | | 3400 | | | | |
| | | | | 3500 | | | | |
| | | | | 3600 | | | | |
| | | | | 3700 | | | | |
| | | | | 3800 | | | | |
| | | | | 3900 | | | | |
| | | | | 4000 | | | | |
| | | | | 4100 | | | | |
| | | | | 4200 | | | | |
| | | | | 4300 | | | | |
| | | | | 4400 | | | | |
| | | | | 4500 | | | | |
| | | | | 4600 | | | | |
| | | | | 4700 | | | | |
| | | | | 4800 | | | | |
| | | | | 4900 | | | | |

Dredge } No. 5279 Date, Sept 19
Hydrog. }
Sdg. Mch. Lucas Reel Shot Lead lbs.
Turns 124 Cor'n Depth 11 fms.
Sdg. Cup Amt. Bot'm Sample 5/
Character of Bottom g.

Thermom. { Make Therm. Cor'n { Instr.
No. Stem.

Bottom Reading -d Cor'd Temp.

Temp. Surf. { 84° Time 1:16 P } Air { 83°
85° Time 1:20 P } 82°

Density: Surf. 1.02452 fms.

Wind: Direction SW Force 4

Baromet. 29.63 Amt. of Clouds 9 State of Sea 6

Weather fog

Direction and Force of Current { Surface
Bottom

Tide

General Locality 5.4 mi. China River mouth, Louisiana

Position 13-57-51 N 101-23-15 W

Chart used: No. 4240 Ed'n 15 [20]

Drift: Direction 116 Distance

Depth of Haul bottom

Apparatus and Rig used as before

Time towing 9 m.

Remarks: Net empty except for small pieces of mud and shells.

Deck Officer J. H. Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

| | | | | | | | | |
|---|------|---|------|------|---|----|---|------|
| 1 | 1030 | 1 | 1620 | 0 | 1 | 3 | 1 | 4800 |
| 1 | 1230 | 1 | 1330 | 100 | 1 | 18 | 1 | 4400 |
| 1 | 1240 | 1 | 1204 | 200 | 1 | 22 | 1 | 4100 |
| | | | | 300 | 1 | 28 | 1 | 3800 |
| | | | | 400 | 1 | 32 | 1 | 3500 |
| | | | | 500 | | | | |
| | | | | 600 | | | | |
| | | | | 700 | | | | |
| | | | | 800 | | | | |
| | | | | 900 | | | | |
| | | | | 1000 | | | | |
| | | | | 1100 | | | | |
| | | | | 1200 | | | | |
| | | | | 1300 | | | | |
| | | | | 1400 | | | | |
| | | | | 1500 | | | | |
| | | | | 1600 | | | | |
| | | | | 1700 | | | | |
| | | | | 1800 | | | | |
| | | | | 1900 | | | | |
| | | | | 2000 | | | | |
| | | | | 2100 | | | | |
| | | | | 2200 | | | | |
| | | | | 2300 | | | | |
| | | | | 2400 | | | | |
| | | | | 2500 | | | | |
| | | | | 2600 | | | | |
| | | | | 2700 | | | | |
| | | | | 2800 | | | | |
| | | | | 2900 | | | | |
| | | | | 3000 | | | | |
| | | | | 3100 | | | | |
| | | | | 3200 | | | | |
| | | | | 3300 | | | | |
| | | | | 3400 | | | | |
| | | | | 3500 | | | | |
| | | | | 3600 | | | | |
| | | | | 3700 | | | | |
| | | | | 3800 | | | | |
| | | | | 3900 | | | | |
| | | | | 4000 | | | | |
| | | | | 4100 | | | | |
| | | | | 4200 | | | | |
| | | | | 4300 | | | | |
| | | | | 4400 | | | | |
| | | | | 4500 | | | | |
| | | | | 4600 | | | | |
| | | | | 4700 | | | | |
| | | | | 4800 | | | | |
| | | | | 4900 | | | | |

Dredge } No. 5280 Date, , 19
 Hydrog. }
 Sdg. Mch. Reel Shot/Lead lbs.
 Turns Cor'n Depth 173 fms.
 Sdg. Cup Amt. Bot'm Sample
 Character of Bottom S
 Thermom. { Make Cor'n { Instr. - 13
 { No. { Stem. - 53
 Bottom Reading 50.3 Cor'd Temp. 49.6
 Temp. Surf. { 82 Time 2:58 } Air { 81
 { 83 Time 3:11 } { 71
 Density: Surf. 1.02422 fms. 1.02517
 Wind: Direction SW Force 4-5
 Baromet. 29.65 Amt. of Clouds 8 State of Sea C
 Weather

Direction and Force of Current { Surface
 { Bottom

Tide

High Water 9:11(N) S 60°W, 6.1 mi.

General Locality

Position

Chart used: No. 4240

Ed'n

Drift: Direction

Distance

Depth of Haul

Apparatus and Rig used

Time towing

h. 1 m.

Remarks:

Deck Officer

Recorder

| SOUNDING WIRE. | | | | FMS. | DREDGING CABLE. | | | | | |
|----------------|----|-------|-----|------|-----------------|----|-------|-----|----|----|
| P | M. | Down. | Up. | | P | M. | Down. | Up. | P | M. |
| 2 | 3 | 6 | 10 | 0 | 2 | 5 | 4 | 15 | 3 | 7 |
| 3 | 7 | 30 | 43 | 100 | 5 | 4 | 15 | 33 | 40 | |
| 2 | 3 | 30 | 2 | 200 | 5 | 7 | 15 | 35 | 30 | |
| | | | | 300 | 3 | 0 | 1 | 10 | 27 | 5 |
| | | | | 400 | 3 | 0 | 5 | 00 | 3 | 2 |
| | | | | 500 | | | | | | |
| | | | | 600 | | | | | | |
| | | | | 700 | | | | | | |
| | | | | 800 | | | | | | |
| | | | | 900 | | | | | | |
| | | | | 1000 | | | | | | |
| | | | | 1100 | | | | | | |
| | | | | 1200 | | | | | | |
| | | | | 1300 | | | | | | |
| | | | | 1400 | | | | | | |
| | | | | 1500 | | | | | | |
| | | | | 1600 | | | | | | |
| | | | | 1700 | | | | | | |
| | | | | 1800 | | | | | | |
| | | | | 1900 | | | | | | |
| | | | | 2000 | | | | | | |
| | | | | 2100 | | | | | | |
| | | | | 2200 | | | | | | |
| | | | | 2300 | | | | | | |
| | | | | 2400 | | | | | | |
| | | | | 2500 | | | | | | |
| | | | | 2600 | | | | | | |
| | | | | 2700 | | | | | | |
| | | | | 2800 | | | | | | |
| | | | | 2900 | | | | | | |
| | | | | 3000 | | | | | | |
| | | | | 3100 | | | | | | |
| | | | | 3200 | | | | | | |
| | | | | 3300 | | | | | | |
| | | | | 3400 | | | | | | |
| | | | | 3500 | | | | | | |
| | | | | 3600 | | | | | | |
| | | | | 3700 | | | | | | |
| | | | | 3800 | | | | | | |
| | | | | 3900 | | | | | | |
| | | | | 4000 | | | | | | |
| | | | | 4100 | | | | | | |
| | | | | 4200 | | | | | | |
| | | | | 4300 | | | | | | |
| | | | | 4400 | | | | | | |
| | | | | 4500 | | | | | | |
| | | | | 4600 | | | | | | |
| | | | | 4700 | | | | | | |
| | | | | 4800 | | | | | | |
| | | | | 4900 | | | | | | |

Dredge } No. 501 Date, Aug 1, 1908

Sdg. Mch. Reel Shot 35 lbs.

Turns 221 Cor'n Depth 221 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom M. S.

Thermom. { Make No. Cor'n { Instr. 713 Stem. 53

Bottom Reading 51.1° Cor'd Temp. 50.4

Temp. Surf. { 90 Time 10:24 Air { 82 Time 10:24

Density: Surf. 1.02452 fms. 1.02538

Wind: Direction SSW Force 3

Baromet. 30.0 Amt. of Clouds 10 State of Sea 3

Weather 10/1

Direction and Force of Current { Surface Bottom

Tide

4.3 mi.

General Locality

(Off Cape Cod) 2.5 E, 11.2 N (N) 88° W.

Position 13-52-45N 120-25-00E [45]

Chart used: No. 4200 Ed'n

Drift: Direction N 86° E. Distance 1.3

Depth of Haul Bottom

Apparatus and Rig used 12' beam trawl

Time towing 20 m.

Remarks: 12' beam trawl

Deck Officer Recorder

SOUNDING WIRE.

| M. Down. | Up. | M. |
|----------|----------|----|
| 10 15 00 | 10 20 00 | |
| 16 00 | 16 00 | |
| 16 00 | | |
| 10 16 50 | 10 16 00 | |
| 11 15 | | |

FMS.

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

DREDGING CABLE.

| M. Down. | Up. | M. |
|----------|----------|----|
| 10 15 00 | 11 15 00 | |
| 16 00 | 11 00 | |
| 22 30 | 07 30 | |
| 27 30 | 06 00 | |
| 10 40 00 | 11 00 00 | |

Dredge } No. 1528 Date, 10 June, 1908

Sdg. Mch. Lucas Reel Lucas Shot/Lead 35 lbs.

Turns 248 Cor'n - Depth 248 fms.

Sdg. Cup Cushman Amt. Bot'm Sample 0.3

Character of Bottom M. S. G.

Thermom. { Make T. Cor'n { Instr. -11
No. 10 Stem. .56

Bottom Reading 248.10 Cor'd Temp. 47.4

Temp. Surf. { 83° Time 11:36 } Air { 82°
83 Time 1:00 } 80

Density: Surf. 1.02437 fms. 1.02517

Wind: Direction S. Force 4

Baromet. 29.69 Amt. of Clouds 9 State of Sea S

Weather bc

Direction and Force of Current { Surface
Bottom

Tide

General Locality 6.2 mi.

Position 26-43

Chart used: No. 17240 Ed'n [27-00]

Drift: Direction 71.85° Distance 7 mi.

Depth of Haul 248

Apparatus and Rig used Lucas

Time towing 1.19 1/2 m.

Remarks: 1st haul in 5 min.

Deck Officer Recorder

SOUNDING WIRE.

M. Down. | Up. | M.

11 18 45 // 73 45

12 25 // 77 55

70 30 // 27 20

" 21 00 // 22 00 998

| | | | | |

FMS.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

DREDGING CABLE.

M. Down. | Up. | M.

11 26 00 // 22 20

49 00 // 12 10

32 00 // 12 10

35 40 // 13 00

11 40 00 // 12 07 00

43 30 // 12 03 00

Dredge } No. 2 Date, () 1904
Hydrog. }

Sdg. Mch. Reel Shot/Lead 35 lbs.

Turns 280 Cor'n Depth 280 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample trace

Character of Bottom sh. gy. S.

Thermom. { Make No. 105013 Cor'n { Instr. -1 Stem. -57

Bottom Reading Cor'd Temp. 46.8

Temp. Surf. { 82° Time 1' } Air { 78° Time 2' } 80°

Density: Surf. 1.0247 fms. 102517

Wind: Direction S.W. x S.E. Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface Bottom

Tide High water 2d(N) N. 64° W., 8.75 mi.

General Locality

Position 13° 48' 20" N; 20° 28' 40" E

Chart used: No. 4240 Ed'n

Drift: Direction S.E. Distance 1.7 mi

Depth of Haul

Apparatus and Rig used

Time towing h. 24 m.

Remarks:

Deck Officer J. Cassidy Recorder C. J. R.

| SOUNDING WIRE. | | | FMS. | DREDGING CABLE. | | |
|----------------|---------|------|------|-----------------|-------|------|
| P.M. DOWN. | UP. | P.M. | | P.M. DOWN. | UP. | P.M. |
| 1 53 20 | 1 58 40 | | 0 | 1 17 20 | 19 15 | |
| 1 04 05 | 1 08 05 | | 100 | 1 20 40 | 15 30 | |
| 1 05 10 | 1 07 00 | | 200 | 1 24 10 | 12 10 | |
| 1 06 40 | 1 06 40 | | 300 | 1 28 40 | 08 40 | |
| | | | 400 | 1 33 20 | 05 10 | |
| | | | 500 | 1 38 00 | 01 30 | |
| | | | 600 | 1 42 40 | | |
| | | | 700 | | | |
| | | | 800 | | | |
| | | | 900 | | | |
| | | | 1000 | | | |
| | | | 1100 | | | |
| | | | 1200 | | | |
| | | | 1300 | | | |
| | | | 1400 | | | |
| | | | 1500 | | | |
| | | | 1600 | | | |
| | | | 1700 | | | |
| | | | 1800 | | | |
| | | | 1900 | | | |
| | | | 2000 | | | |
| | | | 2100 | | | |
| | | | 2200 | | | |
| | | | 2300 | | | |
| | | | 2400 | | | |
| | | | 2500 | | | |
| | | | 2600 | | | |
| | | | 2700 | | | |
| | | | 2800 | | | |
| | | | 2900 | | | |
| | | | 3000 | | | |
| | | | 3100 | | | |
| | | | 3200 | | | |
| | | | 3300 | | | |
| | | | 3400 | | | |
| | | | 3500 | | | |
| | | | 3600 | | | |
| | | | 3700 | | | |
| | | | 3800 | | | |
| | | | 3900 | | | |
| | | | 4000 | | | |
| | | | 4100 | | | |
| | | | 4200 | | | |
| | | | 4300 | | | |
| | | | 4400 | | | |
| | | | 4500 | | | |
| | | | 4600 | | | |
| | | | 4700 | | | |
| | | | 4800 | | | |
| | | | 4900 | | | |

Dredge } No. 175 Date, 0, 19
 Hydrog. }
 Sdg. Mch. Reel Shot/Lead lbs.
 Turns Cor'n Depth fms.
 Sdg. Cup Amt. Bot'm Sample
 Character of Bottom
 Thermom. { Make Cor'n { Instr. -06
 { No. 1 { Stem. .63
 Bottom Reading Cor'd Temp. 42.3
 Temp. Surf. { 87° Time 8:20 a } Air { 83°
 { 84° Time 9:00 } { 81°
 Density: Surf. 1.02437 fms. 1.02366
 Wind: Direction S Force 2
 Baromet. 29.73 Amt. of Clouds 4 State of Sea S
 Weather

Direction and Force of Current { Surface
 { Bottom

Tide
 N 46° W, 14.25 mi

General Locality China Sea

Position 13-42-05 N - 120-55-00 E

Chart used: No. 4240 Ed'n

Drift: Direction 824 E Distance 1.7

Depth of Haul

Apparatus and Rig used

Time towing 25 m.

Remarks:

Deck Officer Recorder

11-1023

| SOUNDING WIRE. | | | FMS. | DREDGING CABLE. | | |
|----------------|---------|---------|------|-----------------|--------|----|
| M. Down. | Up. | M. | | M. Down. | Up. | M. |
| 8 02 50.8 | 1 34 0 | | 0 | 8 19 | 7 38 0 | |
| 03 00 | 10 | | 100 | 8 25 00 | 34 00 | |
| 04 40 | 09 20 | | 200 | 25 10 | | |
| 05 35 | 08 50 | | 300 | 25 10 | 28 00 | |
| 06 35 | 08 10 | | 400 | 25 15 | 34 00 | |
| 07 00 | 8 08 00 | 422.500 | 500 | 25 20 | 40 00 | |
| | | | 600 | 25 25 | 46 00 | |
| | | | 700 | 42 00 | 52 00 | |
| | | | 800 | 44 30 | 58 00 | |
| | | | 900 | | | |
| | | | 1000 | | | |
| | | | 1100 | | | |
| | | | 1200 | | | |
| | | | 1300 | | | |
| | | | 1400 | | | |
| | | | 1500 | | | |
| | | | 1600 | | | |
| | | | 1700 | | | |
| | | | 1800 | | | |
| | | | 1900 | | | |
| | | | 2000 | | | |
| | | | 2100 | | | |
| | | | 2200 | | | |
| | | | 2300 | | | |
| | | | 2400 | | | |
| | | | 2500 | | | |
| | | | 2600 | | | |
| | | | 2700 | | | |
| | | | 2800 | | | |
| | | | 2900 | | | |
| | | | 3000 | | | |
| | | | 3100 | | | |
| | | | 3200 | | | |
| | | | 3300 | | | |
| | | | 3400 | | | |
| | | | 3500 | | | |
| | | | 3600 | | | |
| | | | 3700 | | | |
| | | | 3800 | | | |
| | | | 3900 | | | |
| | | | 4000 | | | |
| | | | 4100 | | | |
| | | | 4200 | | | |
| | | | 4300 | | | |
| | | | 4400 | | | |
| | | | 4500 | | | |
| | | | 4600 | | | |
| | | | 4700 | | | |
| | | | 4800 | | | |
| | | | 4900 | | | |

Dredge } No. 5285 Date, July 20, 1904

Hydrog. } Sdg. Mch. Lucas Reel Lucas Shot/Lead 15 lbs.

Turns _____ Cor'n _____ Depth 272 fms.

Sdg. Cup (Lucas) Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make 2136 Cor'n { Instr. -1
 { No. 1000 { Stem. -68

Bottom Reading 47.2 Cor'd Temp. 46.5

Temp. Surf. { 80 Time 12:50 } Air { 80
 { 80 Time 1:00 } { 80

Density: Surf. 1.0242 fms. 1.0242

Wind: Direction SW Force 3

Baromet. 29.77 Amt. of Clouds 1 State of Sea 3

Weather bcy

Direction and Force of Current { Surface _____
 { Bottom _____

Tide Malacca Id(S) N 45° W, 17.5 mi.

General Locality _____

Ambul Id (N) 12.5 mi. S of Malacca Id

Position 22-55
33-60

Chart used: No. 4240 Ed'n _____

Drift: Direction S 21. E Distance 1.7

Depth of Haul 0-200

Apparatus and Rig used as before

Time towing _____ h. 3.0 m.

Remarks: Water bottle used for analysis
cup was not (filled)
One glass bottle not used.

| SOUNDING WIRE. | | | FMS. | DREDGING CABLE. | | |
|----------------|-------|------|------|-----------------|-------|----|
| M. Down. | Up. | M. | | M. Down. | Up. | M. |
| 12 40 | 10 38 | 0 | 0 | 10 40 | 10 38 | 0 |
| 03 15 | 07 30 | 100 | 100 | 17 30 | | |
| 04 30 | 16 30 | 200 | 200 | 21 10 | 16 25 | |
| 05 45 | 10 40 | 300 | 300 | 24 30 | 12 30 | |
| | | 400 | 400 | 28 00 | 09 00 | |
| | | 500 | 500 | 31 30 | 05 10 | |
| | | 600 | 600 | 10 35 00 | 11 05 | |
| | | 700 | 700 | | | |
| | | 800 | 800 | | | |
| | | 900 | 900 | | | |
| | | 1000 | 1000 | | | |
| | | 1100 | 1100 | | | |
| | | 1200 | 1200 | | | |
| | | 1300 | 1300 | | | |
| | | 1400 | 1400 | | | |
| | | 1500 | 1500 | | | |
| | | 1600 | 1600 | | | |
| | | 1700 | 1700 | | | |
| | | 1800 | 1800 | | | |
| | | 1900 | 1900 | | | |
| | | 2000 | 2000 | | | |
| | | 2100 | 2100 | | | |
| | | 2200 | 2200 | | | |
| | | 2300 | 2300 | | | |
| | | 2400 | 2400 | | | |
| | | 2500 | 2500 | | | |
| | | 2600 | 2600 | | | |
| | | 2700 | 2700 | | | |
| | | 2800 | 2800 | | | |
| | | 2900 | 2900 | | | |
| | | 3000 | 3000 | | | |
| | | 3100 | 3100 | | | |
| | | 3200 | 3200 | | | |
| | | 3300 | 3300 | | | |
| | | 3400 | 3400 | | | |
| | | 3500 | 3500 | | | |
| | | 3600 | 3600 | | | |
| | | 3700 | 3700 | | | |
| | | 3800 | 3800 | | | |
| | | 3900 | 3900 | | | |
| | | 4000 | 4000 | | | |
| | | 4100 | 4100 | | | |
| | | 4200 | 4200 | | | |
| | | 4300 | 4300 | | | |
| | | 4400 | 4400 | | | |
| | | 4500 | 4500 | | | |
| | | 4600 | 4600 | | | |
| | | 4700 | 4700 | | | |
| | | 4800 | 4800 | | | |
| | | 4900 | 4900 | | | |

Dragnet } No. 497 Date, 11/1/1900

Hydrog. } Sdg. Mch. Lucas Reel Shot/Lead 38 lbs.

Turns Cor'n Depth 400 fms.

Sdg. Cup Sigsbee Amt. Bot'm Sample 1.3

Character of Bottom

Thermom. { Make 1173 Cor'n { Instr. -1.7
No. 11101.3 Stem. -1.6-

Bottom Reading 47.2 Cor'd Temp. 46.5°

Temp. Surf. { 84 Time } Air {
87 Time }

Density: Surf. 1.02473 fms.

Wind: Direction Force

Baromet. Amt. of Clouds State of Sea

Weather

Direction and Force of Current { Surface
Bottom

Tide 7:15 am 2d(S) N 42° W, 18.75 mi

General Locality

Chart used: No. 4240 Ed'n

Position 05 12 30 [00] [71]

Chart used: No. 4240 Ed'n

Drift: Direction Distance

Depth of Haul

Apparatus and Rig used

Time towing h. m.

Remarks: No water haul

Deck Officer M. M. Moore Recorder R. B. Smith

SOUNDING WIRE.

L. M. Down. Up. L. M.

FMS.

DREDGING CABLE.

M. Down. Up. M.

| | | | | | | |
|----|----|----|----|----|----|--------|
| 11 | 30 | 20 | 11 | 39 | 00 | 0 |
| | 31 | 15 | | 38 | 00 | 100 |
| | 32 | 20 | | 37 | 20 | 200 |
| | 32 | 45 | | 36 | 10 | 300 |
| | 33 | 40 | | 36 | 00 | 400 |
| 11 | 34 | 30 | 11 | 35 | 30 | 464500 |
| | | | | | | 600 |
| | | | | | | 700 |
| | | | | | | 800 |
| | | | | | | 900 |
| | | | | | | 1000 |
| | | | | | | 1100 |
| | | | | | | 1200 |
| | | | | | | 1300 |
| | | | | | | 1400 |
| | | | | | | 1500 |
| | | | | | | 1600 |
| | | | | | | 1700 |
| | | | | | | 1800 |
| | | | | | | 1900 |
| | | | | | | 2000 |
| | | | | | | 2100 |
| | | | | | | 2200 |
| | | | | | | 2300 |
| | | | | | | 2400 |
| | | | | | | 2500 |
| | | | | | | 2600 |
| | | | | | | 2700 |
| | | | | | | 2800 |
| | | | | | | 2900 |
| | | | | | | 3000 |
| | | | | | | 3100 |
| | | | | | | 3200 |
| | | | | | | 3300 |
| | | | | | | 3400 |
| | | | | | | 3500 |
| | | | | | | 3600 |
| | | | | | | 3700 |
| | | | | | | 3800 |
| | | | | | | 3900 |
| | | | | | | 4000 |
| | | | | | | 4100 |
| | | | | | | 4200 |
| | | | | | | 4300 |
| | | | | | | 4400 |
| | | | | | | 4500 |
| | | | | | | 4600 |
| | | | | | | 4700 |
| | | | | | | 4800 |
| | | | | | | 4900 |

Dredge } No. 5556 Date, 20 Feb, 1908

Hydrog. Sdg. Mch. Reel Shot/Lead 35 lbs.

Turns 450 Cor'n - Depth 450 fms.

Sdg. Cup Simple Amt. Bot'm Sample 3

Character of Bottom S.

Thermom. { Make 11 N. 3. Cor'n { Instr. - 106
No. 108012 Stem. - 63.

Bottom Reading 43.2 Cor'd Temp. 42.5

Temp. Surf. { 84.0 Time 12:41 } Air { 84.50
8.5 Time 1:05 }

Density: Surf. 1.02303 fms. 1.02326

Wind: Direction SSW Force 3

Baromet. 29.70 - 29.6 Amt. of Clouds 5 State of Sea S

Weather bc

Direction and Force of Current { Surface
Bottom

Tide Low (S) N. 45° W., 19.5 mi

General Locality China Sea, near Mindanao.

Month 12 (1907) Day 20 Year 1907

Position 13 22.15 N - 120 24 30 E [05]

Chart used: No. 4212 Ed'n

Drift: Direction 270 Distance 1.0

Depth of Haul Bottom

Apparatus and Rig used 12' Grassie TR trawl

2 1/2 m. net, 1/2 m. net, 1/2 m. net

Time towing - h. 20 m.

Remarks: No wrecked.

Deck Officer: J. H. ... Recorder: J. H. ...

| SOUNDING WIRE. | | | FMS. | DREDGING CABLE. | | |
|----------------|----------|-------|------|-----------------|---------|----|
| M. Down. | Up. | M. | | M. Down. | Up. | M. |
| 12 26 40 | 12 30 00 | 30 00 | 0 | 12 29 45 | 2 25 00 | 0 |
| 12 27 00 | 30 00 | 100 | 100 | 12 30 00 | 2 25 00 | 0 |
| 12 28 00 | 30 00 | 200 | 200 | 12 30 00 | 2 25 00 | 0 |
| 12 29 00 | 30 00 | 300 | 300 | 12 30 00 | 2 25 00 | 0 |
| 12 30 00 | 30 00 | 400 | 400 | 12 30 00 | 2 25 00 | 0 |
| 12 31 00 | 30 00 | 500 | 500 | 12 30 00 | 2 25 00 | 0 |
| | | | 600 | 12 30 00 | 2 25 00 | 0 |
| | | | 700 | 12 30 00 | 2 25 00 | 0 |
| | | | 800 | 12 30 00 | 2 25 00 | 0 |
| | | | 900 | 12 30 00 | 2 25 00 | 0 |
| | | | 1000 | 12 30 00 | 2 25 00 | 0 |
| | | | 1100 | | | |
| | | | 1200 | | | |
| | | | 1300 | | | |
| | | | 1400 | | | |
| | | | 1500 | | | |
| | | | 1600 | | | |
| | | | 1700 | | | |
| | | | 1800 | | | |
| | | | 1900 | | | |
| | | | 2000 | | | |
| | | | 2100 | | | |
| | | | 2200 | | | |
| | | | 2300 | | | |
| | | | 2400 | | | |
| | | | 2500 | | | |
| | | | 2600 | | | |
| | | | 2700 | | | |
| | | | 2800 | | | |
| | | | 2900 | | | |
| | | | 3000 | | | |
| | | | 3100 | | | |
| | | | 3200 | | | |
| | | | 3300 | | | |
| | | | 3400 | | | |
| | | | 3500 | | | |
| | | | 3600 | | | |
| | | | 3700 | | | |
| | | | 3800 | | | |
| | | | 3900 | | | |
| | | | 4000 | | | |
| | | | 4100 | | | |
| | | | 4200 | | | |
| | | | 4300 | | | |
| | | | 4400 | | | |
| | | | 4500 | | | |
| | | | 4600 | | | |
| | | | 4700 | | | |
| | | | 4800 | | | |
| | | | 4900 | | | |

V

Dredge } No. 538) Date, 20 May, 1908
Hydrog. }
Sdg. Mch. Lucas Reel Shot 35 lbs.
Turns 379 Cor'n - Depth 379 fms.
Sdg. Cup E. Sample
Character of Bottom gy. s.
Thermom. { Make N.T. Instr. - .09
 { No. 108013 Cor'n { Stem. - .64
Bottom Reading 44.1° Cor'd Temp. 43.4°
Temp. Surf. { 85 Time 7:43 Air { 84.1°
 { 84.2 Time 8:00 { 84.7°
Density: Surf. 1.02433 fms. 1.0232/
Wind: Direction SSW Force 3
Baromet. 74.1 Amt. of Clouds 6 State of Sea C.
Weather bc

Direction and Force of Current { Surface
 { Bottom

Tide 11.25 mi.

General Locality Verde Is. (Pasig)

Santiago Lt. N. - Sombrero 39-00 N 116-00 W

Position 13 37 40 N - 120 45 W
[45] [30]

Chart used: No. 7240 Ed'n

Drift: Direction S.E. Distance 2 mi.

Depth of Haul Calcutan 10 fms.

Apparatus and Rig used 15' beam trawl

Time towing - 1 1/2 hr.

Remarks: 1. 10 fms. Calcutan trawl used
out, as per order. Trawl
on again in 10 fms. depth.
Haul - 10 fms.

Deck Officer Mr. Thomas Recorder

SOUNDING WIRE.

| M. Down. | Up. | M. |
|----------|-----|-------|
| 26 10 | ✓ | 34 30 |
| 27 00 | | 32 00 |
| 27 55 | | 31 20 |
| 28 55 | ✓ | 30 40 |

FMS.

DREDGING CABLE.

| M. Down. | Up. | M. |
|----------|-----|-------|
| 37 00 | ✓ | 17 00 |
| 38 00 | | 16 00 |
| 39 00 | | 15 00 |
| 40 00 | | 14 00 |
| 41 00 | | 13 00 |
| 42 00 | | 12 00 |

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

Dredge } No. 522 Date, July 1, 1906
Hydrog. }

Sdg. Mch. Reel Shot/Lead lbs.

Turns 70 Cor'n Depth 140 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

* S. M.

Thermom. { Make No.

Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 53° Time 8:07 } Air { 52°
54° Time 8:00 }

Density: Surf. 1.02477 fms.

Wind: Direction S.W. Force 1-2

Baromet. 29.72 Amt. of Clouds 8 State of Sea 0

Weather sc

Direction and Force of Current { Surface Bottom

Tide

General Locality N 50° E 7 mi

Position 19° 43' 30" N 121° 15' W

Chart used: No. 4240 Ed'n

Drift: Direction N 76° W Distance 7 mi

Depth of Haul 10 fms

Apparatus and Rig used 10' Intermediate Cone

Time towing h. 19 1/4 m.

Remarks: 200 m. haul at 10 fms.

Deck Officer Recorder

| SOUNDING WIRE. | | | FMS. | DREDGING CABLE. | | | | | |
|----------------|-----|----|------|-----------------|----|----|-----|----|----|
| M. Down. | Up. | M. | | M. Down. | | | Up. | M. | |
| | | | 0 | 8 | 06 | 10 | 8 | 41 | 40 |
| | | | 100 | 8 | 08 | 10 | 8 | 37 | 30 |
| | | | 200 | 8 | 10 | 45 | | | |
| | | | 300 | 8 | 14 | 15 | 8 | 33 | 30 |
| | | | 400 | | | | | | |
| | | | 500 | | | | | | |
| | | | 600 | | | | | | |
| | | | 700 | | | | | | |
| | | | 800 | | | | | | |
| | | | 900 | | | | | | |
| | | | 1000 | | | | | | |
| | | | 1100 | | | | | | |
| | | | 1200 | | | | | | |
| | | | 1300 | | | | | | |
| | | | 1400 | | | | | | |
| | | | 1500 | | | | | | |
| | | | 1600 | | | | | | |
| | | | 1700 | | | | | | |
| | | | 1800 | | | | | | |
| | | | 1900 | | | | | | |
| | | | 2000 | | | | | | |
| | | | 2100 | | | | | | |
| | | | 2200 | | | | | | |
| | | | 2300 | | | | | | |
| | | | 2400 | | | | | | |
| | | | 2500 | | | | | | |
| | | | 2600 | | | | | | |
| | | | 2700 | | | | | | |
| | | | 2800 | | | | | | |
| | | | 2900 | | | | | | |
| | | | 3000 | | | | | | |
| | | | 3100 | | | | | | |
| | | | 3200 | | | | | | |
| | | | 3300 | | | | | | |
| | | | 3400 | | | | | | |
| | | | 3500 | | | | | | |
| | | | 3600 | | | | | | |
| | | | 3700 | | | | | | |
| | | | 3800 | | | | | | |
| | | | 3900 | | | | | | |
| | | | 4000 | | | | | | |
| | | | 4100 | | | | | | |
| | | | 4200 | | | | | | |
| | | | 4300 | | | | | | |
| | | | 4400 | | | | | | |
| | | | 4500 | | | | | | |
| | | | 4600 | | | | | | |
| | | | 4700 | | | | | | |
| | | | 4800 | | | | | | |
| | | | 4900 | | | | | | |

Dredge } No. 2 Date, () , 19

Sdg. Mch. Reel Shot/Lead 33 lbs.

Turns 181 Cor'n - Depth 17 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom Brk Sh. S.

Thermom. { Make A. J. Cor'n { Instr. No. 108013 Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 84 Time 9:13 } Air { 84 Time 9:48 }

Density: Surf. 1.02497 Bottom fms. 1.02359

Wind: Direction S.E. Ob. Force 2

Baromet. 29.7 Amt. of Clouds 8 State of Sea X

Weather bc

Direction and Force of Current { Surface Bottom

Tide

General Locality 5.00 mi.

Position 17° 41' 50" N 120° 58' 00" W

Chart used: No. 4240 Ed'n

Drift: Direction 232° E Distance 1 mi.

Depth of Haul bottom

Apparatus and Rig used 12' Agassiz

Time towing h. 1 m.

Remarks:

Deck Officer Recorder

Dredge } No. 123 Date, Jan 1, 1902

Sdg. Mch. 1 Reel 1 Shot/Lead lbs.

Turns --- Cor'n --- Depth 21 fms.

Sdg. Cup 1 Amt. Bot'm Sample 1 lb.

Character of Bottom cor. G.

Thermom. { Make 71.4 Cor'n { Instr. ---
No. 123 Stem. 61.4

Bottom Reading --- Cor'd Temp. 1

Temp. Surf. { 84° Time 10:35 } Air { 83°
Time 11:00 }

Density: Surf. 1.02482 fms. 1.02354

Wind: Direction 200 Force 1/3

Baromet. 29.8 Amt. of Clouds 4 State of Sea 2

Weather No.

Direction and Force of Current { Surface ---
Bottom ---

Tide --- 3.18 mi.

General Locality (Atlantic Ocean) E.

Position 12° 00' N 74° 00' W

Chart used: No. 4240 Ed'n.

Drift: Direction 200 Distance 1.0 mi.

Depth of Haul Bottom

Apparatus and Rig used 12' beam trawl

Time towing h. 19 m.

Remarks: Probably caused by too light a

net.

1 at 42, 1 at 40, 1 at 25, 1 at 21

Deck Officer 1 Recorder 1

11-1023

FMS.

DREDGING CABLE.

SOUNDING WIRE.
M. Down. | Up. | M.

M. Down. | Up. | M.

| | | | | | |
|------|----|---|----|----|---------|
| 0 | | | | | |
| 100 | | | | | |
| 200 | | | | | |
| 300 | | | | | |
| 400 | | | | | |
| 500 | | | | | |
| 600 | | | | | |
| 700 | 10 | 5 | 20 | 11 | 00 00 |
| 800 | | | | | |
| 900 | | | | | |
| 1000 | | | | | |
| 1100 | | | | | |
| 1200 | | | | | |
| 1300 | | | | | |
| 1400 | | | | | |
| 1500 | | | | | |
| 1600 | | | | | |
| 1700 | | | | | |
| 1800 | | | | | |
| 1900 | | | | | |
| 2000 | | | | | |
| 2100 | | | | | |
| 2200 | | | | | |
| 2300 | | | | | |
| 2400 | | | | | |
| 2500 | | | | | |
| 2600 | | | | | |
| 2700 | | | | | |
| 2800 | | | | | |
| 2900 | | | | | |
| 3000 | | | | | |
| 3100 | | | | | |
| 3200 | | | | | |
| 3300 | | | | | |
| 3400 | | | | | |
| 3500 | | | | | |
| 3600 | | | | | |
| 3700 | | | | | |
| 3800 | | | | | |
| 3900 | | | | | |
| 4000 | | | | | |
| 4100 | | | | | |
| 4200 | | | | | |
| 4300 | | | | | |
| 4400 | | | | | |
| 4500 | | | | | |
| 4600 | | | | | |
| 4700 | | | | | |
| 4800 | | | | | |
| 4900 | | | | | |

Dredge } No. 557 Date, _____, 19

Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns _____ Cor'n _____ Depth 173 fms.

Sdg. Cup _____ Amt. Bot'm Sample trace

Character of Bottom _____

Thermom. { Make N 3/4 No. 108013 Cor'n { Instr. -14 Stem. -51

Bottom Reading 52.7 Cor'd Temp. 52.5

Temp. Surf. { Time 1:30 Air { 86 Time 2:15 Air { 86

Density: Surf. 1.02462 fms. 1.02466

Wind: Direction N N W Force 1-2

Baromet. _____ Amt. of Clouds 9 State of Sea 2

Weather bcy

Direction and Force of Current { Surface _____ Bottom _____

Tide _____

General Locality _____ 2.2 mi
_____ 9 W (8 E) N 64 E

Position _____

Chart used: No. 4240 CS. Ed'n _____

Drift: Direction S 58 E Distance 1.0

Depth of Haul bottom

Apparatus and Rig used _____

Time towing _____ h. 20 m.

Remarks: Water 10 fms. _____

Deck Officer _____ Recorder _____

| SOUNDING WIRE. | | | | FMS. | DREDGING CABLE. | | | |
|----------------|----------|-----|-------|------|-----------------|----------|-----|-------|
| P | M. Down. | Up. | P. M. | | P | M. Down. | Up. | P. M. |
| 1 | 24 50 | 1 | 29 40 | 0 | 1 | 30 50 | 1 | 35 00 |
| | 26 00 | | 30 50 | 100 | | 37 00 | | 42 15 |
| 1 | 26 50 | 1 | 27 50 | 173 | 200 | 40 30 | 08 | 40 |
| | | | | 300 | 1 | 45 00 | 2 | 05 00 |
| | | | | 400 | | | | |
| | | | | 500 | | | | |
| | | | | 600 | | | | |
| | | | | 700 | | | | |
| | | | | 800 | | | | |
| | | | | 900 | | | | |
| | | | | 1000 | | | | |
| | | | | 1100 | | | | |
| | | | | 1200 | | | | |
| | | | | 1300 | | | | |
| | | | | 1400 | | | | |
| | | | | 1500 | | | | |
| | | | | 1600 | | | | |
| | | | | 1700 | | | | |
| | | | | 1800 | | | | |
| | | | | 1900 | | | | |
| | | | | 2000 | | | | |
| | | | | 2100 | | | | |
| | | | | 2200 | | | | |
| | | | | 2300 | | | | |
| | | | | 2400 | | | | |
| | | | | 2500 | | | | |
| | | | | 2600 | | | | |
| | | | | 2700 | | | | |
| | | | | 2800 | | | | |
| | | | | 2900 | | | | |
| | | | | 3000 | | | | |
| | | | | 3100 | | | | |
| | | | | 3200 | | | | |
| | | | | 3300 | | | | |
| | | | | 3400 | | | | |
| | | | | 3500 | | | | |
| | | | | 3600 | | | | |
| | | | | 3700 | | | | |
| | | | | 3800 | | | | |
| | | | | 3900 | | | | |
| | | | | 4000 | | | | |
| | | | | 4100 | | | | |
| | | | | 4200 | | | | |
| | | | | 4300 | | | | |
| | | | | 4400 | | | | |
| | | | | 4500 | | | | |
| | | | | 4600 | | | | |
| | | | | 4700 | | | | |
| | | | | 4800 | | | | |
| | | | | 4900 | | | | |

Dredge } No. 5277 Date, , 19
Hydrog. }
Sdg. Mch. Reel Shot } lbs.
Leath }
Turns Cor'n Depth 17 fms.
Sdg. Cup 21 Amt. Bot'm Sample 17
Character of Bottom 1 fine bk. sh.
Thermom. { Make No. Cor'n { Instr. - .15
Stem. - .57
Bottom Reading 55.1 Cor'd Temp. 52.4
Temp. Surf. { 67 Time 2:30 } Air { 83
Time
Density: Surf. / 0.02473 fms. 1.02421
Wind: Direction W. N. Force 2
Baromet. Amt. of Clouds 6 State of Sea 8
Weather B.

Direction and Force { Surface
of Current. { Bottom

Title

General Locality 3.25 mi.

Position 13-28-45 N - 12-1-

Chart used: No. 4540 C.B. Ed'n

Drift: Direction 81 Distance

Depth of Haul bottom

Apparatus and Rig used

Time towing h. 20 m.

Remarks:

Deck Officer W. H. H. Recorder

Dredge } No. 5272 Date, , 19
Hydrog. }
Sdg. Mch. Lucas Reel Lucas Shot 55 lbs.
Lead }
Turns 180 Cor'n ~ Depth 180 fms.
Sdg. Cup Amt. Bot'm Sample
Character of Bottom
Thermom. { Make No. 108013 Cor'n { Instr. - .19
Stem. - .44
Bottom Reading 58 Cor'd Temp. 57.4°
Temp. Surf. { 84° Time 4:34 Air 84.5°
Time 4:34
Density: Surf. 1.02457 fms. 1.02510
Wind: Direction WNW Force 3
Baromet. Amt. of Clouds State of Sea
Weather

Direction and Force of Current { Surface
Bottom

Tide

General Locality

Position 15 28 15 N. 121 64 30 E.

Chart used: No. 4240 Ed'n

Drift: Direction Distance .8

Depth of Haul

Apparatus and Rig used

Time towing h. 30 m.

Remarks: a bottle and m...

Deck Officer Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. | Up. | M.

M. Down. | Up. | M.

| | | | | | | | | | | | | |
|---|----|----|---|---|----|------|---|---|---|----|---|---|
| 3 | 1 | 10 | 5 | 3 | 4 | 0 | 3 | 1 | 5 | 3 | 4 | 0 |
| | 11 | 10 | | 4 | | 100 | | 5 | 1 | 30 | | 3 |
| 3 | 12 | 5 | 3 | 5 | 10 | 200 | | 5 | 1 | 30 | | 3 |
| | | | | | | 300 | | 5 | 1 | 30 | | 3 |
| | | | | | | 400 | | 5 | 1 | 30 | | 3 |
| | | | | | | 500 | | 5 | 1 | 30 | | 3 |
| | | | | | | 600 | | | | | | |
| | | | | | | 700 | | | | | | |
| | | | | | | 800 | | | | | | |
| | | | | | | 900 | | | | | | |
| | | | | | | 1000 | | | | | | |
| | | | | | | 1100 | | | | | | |
| | | | | | | 1200 | | | | | | |
| | | | | | | 1300 | | | | | | |
| | | | | | | 1400 | | | | | | |
| | | | | | | 1500 | | | | | | |
| | | | | | | 1600 | | | | | | |
| | | | | | | 1700 | | | | | | |
| | | | | | | 1800 | | | | | | |
| | | | | | | 1900 | | | | | | |
| | | | | | | 2000 | | | | | | |
| | | | | | | 2100 | | | | | | |
| | | | | | | 2200 | | | | | | |
| | | | | | | 2300 | | | | | | |
| | | | | | | 2400 | | | | | | |
| | | | | | | 2500 | | | | | | |
| | | | | | | 2600 | | | | | | |
| | | | | | | 2700 | | | | | | |
| | | | | | | 2800 | | | | | | |
| | | | | | | 2900 | | | | | | |
| | | | | | | 3000 | | | | | | |
| | | | | | | 3100 | | | | | | |
| | | | | | | 3200 | | | | | | |
| | | | | | | 3300 | | | | | | |
| | | | | | | 3400 | | | | | | |
| | | | | | | 3500 | | | | | | |
| | | | | | | 3600 | | | | | | |
| | | | | | | 3700 | | | | | | |
| | | | | | | 3800 | | | | | | |
| | | | | | | 3900 | | | | | | |
| | | | | | | 4000 | | | | | | |
| | | | | | | 4100 | | | | | | |
| | | | | | | 4200 | | | | | | |
| | | | | | | 4300 | | | | | | |
| | | | | | | 4400 | | | | | | |
| | | | | | | 4500 | | | | | | |
| | | | | | | 4600 | | | | | | |
| | | | | | | 4700 | | | | | | |
| | | | | | | 4800 | | | | | | |
| | | | | | | 4900 | | | | | | |

Dredge } No. _____ Date, _____, 19____
Hydrog. }

Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns _____ Cor'n _____ Depth 214 fms.

Sdg. Cup _____ Amt. Bot'm Sample _____

Character of Bottom X, P

Thermom. { Make N 3 Cor'n { Instr. 713
 { No. _____ { Stem. 755

Bottom Reading 49.1 Cor'd Temp. 48.4

Temp. Surf. { 87.0 Time 4.08 } Air { 20
 { _____ Time _____ } { _____

Density: Surf. 1.02580 fms. 12.482

Wind: Direction _____ Force _____

Baromet. 30.2 Amt. of Clouds _____ State of Sea _____

Weather bc

Direction and Force of Current { Surface _____
 { Bottom _____

Tide Low St. S 71° W. 2.75 mi.

General Locality Off Cape Cod, S. 71° W. 2.75 mi.

Position 41° 12' N. 71° 12' W.

Chart used: No. 4240 Ed'n _____

Drift: Direction 75° W Distance _____

Depth of Haul So

Apparatus and Rig used _____

Time towing _____ h. 17 m.

Remarks: Time towing 17 m.
Bottom data from 0 to 10 fms.
all shells, some small, some large
several starfish, a few small crabs

Deck Officer _____ Recorder _____

| SOUNDING WIRE. | | | FMS. | DREDGING CABLE. | | |
|----------------|-----|----|------|-----------------|-----|----|
| A. M. Down. | Up. | M. | | A. M. Down. | Up. | M. |
| | | | 0 | | | |
| | | | 100 | | | |
| | | | 200 | | | |
| | | | 300 | | | |
| | | | 400 | | | |
| | | | 500 | | | |
| | | | 600 | | | |
| | | | 700 | | | |
| | | | 800 | | | |
| | | | 900 | | | |
| | | | 1000 | | | |
| | | | 1100 | | | |
| | | | 1200 | | | |
| | | | 1300 | | | |
| | | | 1400 | | | |
| | | | 1500 | | | |
| | | | 1600 | | | |
| | | | 1700 | | | |
| | | | 1800 | | | |
| | | | 1900 | | | |
| | | | 2000 | | | |
| | | | 2100 | | | |
| | | | 2200 | | | |
| | | | 2300 | | | |
| | | | 2400 | | | |
| | | | 2500 | | | |
| | | | 2600 | | | |
| | | | 2700 | | | |
| | | | 2800 | | | |
| | | | 2900 | | | |
| | | | 3000 | | | |
| | | | 3100 | | | |
| | | | 3200 | | | |
| | | | 3300 | | | |
| | | | 3400 | | | |
| | | | 3500 | | | |
| | | | 3600 | | | |
| | | | 3700 | | | |
| | | | 3800 | | | |
| | | | 3900 | | | |
| | | | 4000 | | | |
| | | | 4100 | | | |
| | | | 4200 | | | |
| | | | 4300 | | | |
| | | | 4400 | | | |
| | | | 4500 | | | |
| | | | 4600 | | | |
| | | | 4700 | | | |
| | | | 4800 | | | |
| | | | 4900 | | | |

Dredge } No. 1111 Date, Aug 7, 1907
Hydrog. }

Sdg. Mch. Lucas Reel Lucas Shot } 50 lbs.
Lead }

Turns 231 Cor'n: ——— Depth 231 fms.

Sdg. Cup Lucas Amt. Bot'm Sample Lucas

Character of Bottom gy. s.

Thermom. { Make N.Y. Cor'n { Instr. 714
No. 108213 Stem. -51+

Bottom Reading 52° Cor'd Temp. 51.3

Temp. Surf. { 84° Time 10¹⁶ a } Air { 83°
84° Time 10⁵³ a } 83½°

Density: Surf. 1.02457 fms. 1.02573

Wind: Direction N.W. Force 3

Baromet. 29.76 Amt. of Clouds 1 State of Sea

Weather bc

Direction and Force of Current { Surface
Bottom

Tide

General Locality 2.00 mi.

Position 13° 32' 15" N, 120° 00' 00" E

Chart used: No. 4240 Ed'n

Drift: Direction N. 59° W Distance 1.2 mi.

Depth of Haul bottom

Apparatus and Rig used As

Time towing h. 1 m.

Remarks:

Deck Officer Recorder

| SOUNDING WIRE. | | | | | FMS. | DREDGING CABLE. | | | | |
|----------------|----|-----|-------|----|------|-----------------|----|-----|-------|--|
| M. Down. | | Up. | C. M. | | | M. Down. | | Up. | C. M. | |
| 12 03 | | | | | 0 | 10 14 | 30 | 10 | 30 | |
| 12 04 | | | | | 100 | 10 17 | | 30 | | |
| 10 05 | 30 | 10 | 07 | 10 | 200 | 10 21 | 25 | 10 | 67 30 | |
| 10 05 | 30 | 10 | 07 | 10 | 300 | 10 24 | 30 | 10 | 45 30 | |
| | | | | | 400 | 10 26 | 10 | 10 | 46 00 | |
| | | | | | 500 | | | | | |
| | | | | | 600 | | | | | |
| | | | | | 700 | | | | | |
| | | | | | 800 | | | | | |
| | | | | | 900 | | | | | |
| | | | | | 1000 | | | | | |
| | | | | | 1100 | | | | | |
| | | | | | 1200 | | | | | |
| | | | | | 1300 | | | | | |
| | | | | | 1400 | | | | | |
| | | | | | 1500 | | | | | |
| | | | | | 1600 | | | | | |
| | | | | | 1700 | | | | | |
| | | | | | 1800 | | | | | |
| | | | | | 1900 | | | | | |
| | | | | | 2000 | | | | | |
| | | | | | 2100 | | | | | |
| | | | | | 2200 | | | | | |
| | | | | | 2300 | | | | | |
| | | | | | 2400 | | | | | |
| | | | | | 2500 | | | | | |
| | | | | | 2600 | | | | | |
| | | | | | 2700 | | | | | |
| | | | | | 2800 | | | | | |
| | | | | | 2900 | | | | | |
| | | | | | 3000 | | | | | |
| | | | | | 3100 | | | | | |
| | | | | | 3200 | | | | | |
| | | | | | 3300 | | | | | |
| | | | | | 3400 | | | | | |
| | | | | | 3500 | | | | | |
| | | | | | 3600 | | | | | |
| | | | | | 3700 | | | | | |
| | | | | | 3800 | | | | | |
| | | | | | 3900 | | | | | |
| | | | | | 4000 | | | | | |
| | | | | | 4100 | | | | | |
| | | | | | 4200 | | | | | |
| | | | | | 4300 | | | | | |
| | | | | | 4400 | | | | | |
| | | | | | 4500 | | | | | |
| | | | | | 4600 | | | | | |
| | | | | | 4700 | | | | | |
| | | | | | 4800 | | | | | |
| | | | | | 4900 | | | | | |

Dredge } No. 277
 Hydrog. }
 Sigs. Mch. 28
 Date, , 19
 Reel Shot/Lead lbs.
 Turns 20 Cor'n Depth 210 chart fms.
 Sigs. Cup Amt. Bot'm Sample
 Character of Bottom M/S
 Thermom. { Make Instr.
 { No. Cor'n { Stem.
 Bottom Reading Cor'd Temp.
 Temp. Surf. { 51' Time 1:55 } Air { 56'
 { 51' Time 1:55 } { 52'
 Density: Surf. / 1.02473 fms.
 Wind: Direction W Force 0-1
 Baromet. 24.72 Amt. of Clouds 11 State of Sea
 Weather 6:10

Direction and Force of Current { Surface
 { Bottom

Tide

7110 S 63° E, 4.55 mi.

General Locality 12.5.12.4

Latitude 24.11.12.4

Position 12.5.12.4 - 120-54-12.4

Chart used: No. 4340 C.S. Ed'n

Drift: Direction 20 Distance 1.2

Depth of Haul bottom

Apparatus and Rig used 11/5

Time towing 20 m.

Remarks:

Deck Officer 7110

Recorder

SOUNDING WIRE.

FMS.

DREDGING CABLE.

M. Down. Up. M.

M. Down. Up. M.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

| | | | |
|-----|----|----|----|
| 12 | 53 | 1 | 53 |
| 57 | 10 | 12 | 30 |
| 20 | 50 | 15 | 30 |
| 45 | 0 | 18 | 0 |
| 247 | 1 | 07 | 00 |

Dredge } No. 579
Hydrog. }
Date, , 19
Sdg. Mch. Reel Shot/Lead lbs.
Turns Cor'n Depth 198 fms.
Sdg. Cup Amt. Bot'm Sample
Character of Bottom M.

Thermom. { Make Instr.
 { No. Cor'n Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 85° Time 1:15 P } Air { 25°
 { Time }

Density: Surf. 1.02477 fms.

Wind: Direction W Force 1-2

Baromet. 29.70 Amt. of Clouds 5 State of Sea S

Weather

Direction and Force of Current { Surface
 { Bottom

Tide
Water Pt. S. 30° E., 5.10 mi.

General Locality Water, open bay, near
Culebra, 121° 15' W, 18° 15' N

Position 18° 15' N, 121° 15' W

Chart used: No. 4540 CS. Ed'n

Drift: Direction S 47° E Distance 1/2

Depth of Haul bottom

Apparatus and Rig used as before

Time towing 20 m.

Remarks:

Deck Officer Mr. [unclear] Recorder [unclear]

| SOUNDING WIRE. | | | FMS. | DREDGING CABLE. | | |
|----------------|-----|----|------|-----------------|-------|-------|
| M. Down. | Up. | M. | | M. Down. | Up. | M. |
| | | | 0 | 1 | 50 00 | 28 30 |
| | | | 100 | | 46 30 | 24 10 |
| | | | 200 | | 52 00 | 20 00 |
| | | | 300 | | 53 00 | 16 00 |
| | | | 400 | 1 | 55 00 | 2 15 |
| | | | 500 | | | |
| | | | 600 | | | |
| | | | 700 | | | |
| | | | 800 | | | |
| | | | 900 | | | |
| | | | 1000 | | | |
| | | | 1100 | | | |
| | | | 1200 | | | |
| | | | 1300 | | | |
| | | | 1400 | | | |
| | | | 1500 | | | |
| | | | 1600 | | | |
| | | | 1700 | | | |
| | | | 1800 | | | |
| | | | 1900 | | | |
| | | | 2000 | | | |
| | | | 2100 | | | |
| | | | 2200 | | | |
| | | | 2300 | | | |
| | | | 2400 | | | |
| | | | 2500 | | | |
| | | | 2600 | | | |
| | | | 2700 | | | |
| | | | 2800 | | | |
| | | | 2900 | | | |
| | | | 3000 | | | |
| | | | 3100 | | | |
| | | | 3200 | | | |
| | | | 3300 | | | |
| | | | 3400 | | | |
| | | | 3500 | | | |
| | | | 3600 | | | |
| | | | 3700 | | | |
| | | | 3800 | | | |
| | | | 3900 | | | |
| | | | 4000 | | | |
| | | | 4100 | | | |
| | | | 4200 | | | |
| | | | 4300 | | | |
| | | | 4400 | | | |
| | | | 4500 | | | |
| | | | 4600 | | | |
| | | | 4700 | | | |
| | | | 4800 | | | |
| | | | 4900 | | | |

Dredge } No. 1247 Date, , 19

Hydrog. } Sigs. Mch. Reel Shot/Lead lbs.

Turns Cor'n Depth 14 fms.

Sigs. Cup Amt. Bot'm Sample

Character of Bottom S. chert

Thermom. { Make Cor'n { Instr. No. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 84° Time 2:20 P } Air { 84°

Density: Surf. not taken fms.

Wind: Direction W. S Force 1

Baromet. Amt. of Clouds 9 State of Sea S

Weather bc

Direction and Force of Current { Surface Bottom

Tide

Matocot P S 38° E., 6.70 mi.

General Locality Balabac 1 day from

Luapra. 2d W. S. 110 mi. from 17° 20' N.

Position 13-40-23 N - 120-57-40 E

Chart used: No. 4240 CS. Ed'n

Drift: Direction S. E Distance .5

Depth of Haul bottom

Apparatus and Rig used as before

Time towing h. 10 m.

Remarks: Mud. bag came up

Deck Officer Recorder

SOUNDING WIRE.

M. DOWN. Up. M.

FMS.

DREDGING CABLE.

M. DOWN. Up. M.

| | | | | | |
|------|---|----|----|---|------|
| 0 | 8 | 00 | 00 | 3 | 21 |
| 100 | | 03 | 30 | | 25 |
| 200 | | 06 | 50 | | 27 |
| 300 | 3 | 07 | 00 | 3 | 19-0 |
| 400 | | | | | |
| 500 | | | | | |
| 600 | | | | | |
| 700 | | | | | |
| 800 | | | | | |
| 900 | | | | | |
| 1000 | | | | | |
| 1100 | | | | | |
| 1200 | | | | | |
| 1300 | | | | | |
| 1400 | | | | | |
| 1500 | | | | | |
| 1600 | | | | | |
| 1700 | | | | | |
| 1800 | | | | | |
| 1900 | | | | | |
| 2000 | | | | | |
| 2100 | | | | | |
| 2200 | | | | | |
| 2300 | | | | | |
| 2400 | | | | | |
| 2500 | | | | | |
| 2600 | | | | | |
| 2700 | | | | | |
| 2800 | | | | | |
| 2900 | | | | | |
| 3000 | | | | | |
| 3100 | | | | | |
| 3200 | | | | | |
| 3300 | | | | | |
| 3400 | | | | | |
| 3500 | | | | | |
| 3600 | | | | | |
| 3700 | | | | | |
| 3800 | | | | | |
| 3900 | | | | | |
| 4000 | | | | | |
| 4100 | | | | | |
| 4200 | | | | | |
| 4300 | | | | | |
| 4400 | | | | | |
| 4500 | | | | | |
| 4600 | | | | | |
| 4700 | | | | | |
| 4800 | | | | | |
| 4900 | | | | | |

Dredge No. 5599 Date, 8 Aug., 1905
 Sdg. Mch. Lucas Reel L Shot 3.5 lbs.
 Turns 524 Cor'n — Depth 524 fms.
 Sdg. Cup Lucas Amt. Bot'm Sample no sample
 Character of Bottom gy. S.S. (mud)
 Thermom. { Make V.Z. Cor'n { Instr. - 06
 { No. 108012 { Stem. - 63
 Bottom Reading 43.20 Cor'd Temp. 42.5
 Temp. Surf. { 83.0 Time 8:20 a } Air { 85.50
 { 84.0 Time 9:34 a } { 83.50
 Density: Surf. 1.02396 fms. 1.02535
 Wind: Direction SW Force 3
 Baromet. 29.5 Amt. of Clouds 4 State of Sea E
 Weather bc

Direction and Force of Current { Surface —
 { Bottom —
 Tide —

General Locality China Sea
100 m. S. of Tainan
 Position 20-05-00 N, 116-05-00 E
 Chart used: No. 491 H.O. Ed'n —
 Drift: Direction — Distance —
 Depth of Haul Bottom
 Apparatus and Rig used 12' Hooper's machine

Time towing — h. 22 m.
 Remarks: Whole haul in 10 min. —
of the three glass floats came up
half full of water.

Deck Officer Mr. Hayes Recorder — 11-1023

SOUNDING WIRE.

FMS.

DREDGING CABLE.

| M. Down. | | Up. | M. | | M. Down. | | Up. | M. | |
|----------|-------|-----|-------|------|----------|-------|-----|-------|--|
| 8 | 04 00 | 8 | 15 00 | 0 | 8 | 20 30 | 9 | 12 30 | |
| | 05 00 | | 14 15 | 100 | | 21 00 | | 11 00 | |
| | 06 00 | | 13 30 | 200 | | 22 00 | | 10 00 | |
| | 07 00 | | 12 45 | 300 | | 23 00 | | 09 00 | |
| | 08 00 | | 12 05 | 400 | | 24 00 | | 08 00 | |
| | 09 00 | | 11 15 | 500 | | 25 10 | | 07 00 | |
| 8 | 09 30 | 8 | 10 50 | 600 | | 26 30 | | 06 00 | |
| | | | | 700 | | 27 00 | | 05 00 | |
| | | | | 800 | | 28 00 | | 04 00 | |
| | | | | 900 | | 29 00 | | 03 00 | |
| | | | | 1000 | 8 | 30 20 | 9 | 02 20 | |
| | | | | 1100 | | | | | |
| | | | | 1200 | | | | | |
| | | | | 1300 | | | | | |
| | | | | 1400 | | | | | |
| | | | | 1500 | | | | | |
| | | | | 1600 | | | | | |
| | | | | 1700 | | | | | |
| | | | | 1800 | | | | | |
| | | | | 1900 | | | | | |
| | | | | 2000 | | | | | |
| | | | | 2100 | | | | | |
| | | | | 2200 | | | | | |
| | | | | 2300 | | | | | |
| | | | | 2400 | | | | | |
| | | | | 2500 | | | | | |
| | | | | 2600 | | | | | |
| | | | | 2700 | | | | | |
| | | | | 2800 | | | | | |
| | | | | 2900 | | | | | |
| | | | | 3000 | | | | | |
| | | | | 3100 | | | | | |
| | | | | 3200 | | | | | |
| | | | | 3300 | | | | | |
| | | | | 3400 | | | | | |
| | | | | 3500 | | | | | |
| | | | | 3600 | | | | | |
| | | | | 3700 | | | | | |
| | | | | 3800 | | | | | |
| | | | | 3900 | | | | | |
| | | | | 4000 | | | | | |
| | | | | 4100 | | | | | |
| | | | | 4200 | | | | | |
| | | | | 4300 | | | | | |
| | | | | 4400 | | | | | |
| | | | | 4500 | | | | | |
| | | | | 4600 | | | | | |
| | | | | 4700 | | | | | |
| | | | | 4800 | | | | | |
| | | | | 4900 | | | | | |

Bridge } No. 5122 Date, , 190

Sdg. Mch. Reel Shot Lead lbs.

Turns 265 Cor'n Depth 265 fms.

Sdg. Cup Amt. Bot'm Sample

Character of Bottom

Thermom. { Make No. 108013 Cor'n { Instr. Stem.

Bottom Reading Cor'd Temp.

Temp. Surf. { 85.0 Time 2:20 } Air { 85.0 } Time

Density: Surf. 1.02350 fms. 1.02430

Wind: Direction 280 Force 2-3

Baromet. 29.82 Amt. of Clouds 2 State of Sea 8

Weather

Direction and Force of Current { Surface Bottom

Tide

General Locality China Sea

Position 20° 31' 3" N. 110° 9' W.

Chart used: No. 775 Ed'n

Drift: Direction S 64° E Distance 1.0

Depth of Haul

Apparatus and Rig used

Time towing h. 20 m.

Remarks:

Deck Officer Recorder

| SOUNDING WIRE. | | | | | FMS. | DREDGING CABLE. | | | | | | |
|----------------|----|-----|----|----|------|-----------------|---|-----|----|---|----|----|
| M. Down. | | Up. | M. | | | M. Down. | | Up. | M. | | | |
| 2 | 04 | 20 | 2 | 10 | 40 | 0 | 2 | 14 | 30 | 3 | 07 | 40 |
| 2 | 05 | 20 | 2 | 09 | 45 | 100 | 2 | 15 | 00 | 3 | 08 | 40 |
| 2 | 06 | 20 | 2 | 08 | 55 | 200 | 2 | 21 | 25 | 2 | 59 | 45 |
| 2 | 07 | 20 | 2 | 08 | 25 | 300 | 2 | 27 | 30 | 2 | 54 | 45 |
| | | | | | | 400 | 2 | 28 | 35 | 2 | 51 | 50 |
| | | | | | | 500 | | | | | | |
| | | | | | | 600 | | | | | | |
| | | | | | | 700 | | | | | | |
| | | | | | | 800 | | | | | | |
| | | | | | | 900 | | | | | | |
| | | | | | | 1000 | | | | | | |
| | | | | | | 1100 | | | | | | |
| | | | | | | 1200 | | | | | | |
| | | | | | | 1300 | | | | | | |
| | | | | | | 1400 | | | | | | |
| | | | | | | 1500 | | | | | | |
| | | | | | | 1600 | | | | | | |
| | | | | | | 1700 | | | | | | |
| | | | | | | 1800 | | | | | | |
| | | | | | | 1900 | | | | | | |
| | | | | | | 2000 | | | | | | |
| | | | | | | 2100 | | | | | | |
| | | | | | | 2200 | | | | | | |
| | | | | | | 2300 | | | | | | |
| | | | | | | 2400 | | | | | | |
| | | | | | | 2500 | | | | | | |
| | | | | | | 2600 | | | | | | |
| | | | | | | 2700 | | | | | | |
| | | | | | | 2800 | | | | | | |
| | | | | | | 2900 | | | | | | |
| | | | | | | 3000 | | | | | | |
| | | | | | | 3100 | | | | | | |
| | | | | | | 3200 | | | | | | |
| | | | | | | 3300 | | | | | | |
| | | | | | | 3400 | | | | | | |
| | | | | | | 3500 | | | | | | |
| | | | | | | 3600 | | | | | | |
| | | | | | | 3700 | | | | | | |
| | | | | | | 3800 | | | | | | |
| | | | | | | 3900 | | | | | | |
| | | | | | | 4000 | | | | | | |
| | | | | | | 4100 | | | | | | |
| | | | | | | 4200 | | | | | | |
| | | | | | | 4300 | | | | | | |
| | | | | | | 4400 | | | | | | |
| | | | | | | 4500 | | | | | | |
| | | | | | | 4600 | | | | | | |
| | | | | | | 4700 | | | | | | |
| | | | | | | 4800 | | | | | | |
| | | | | | | 4900 | | | | | | |

Dredge } No. 5-201 Date, Aug 1, 1908
Hydrog. }

Sdg. Mch. _____ Reel _____ Shot/Lead _____ lbs.

Turns _____ Cor'n _____ Depth 7 fms.

Sdg. Cup Sigbee Amt. Bot'm Sample _____

Character of Bottom _____

Thermom. { Make N.G. Cor'n { Instr. -14
 { No. 105013 { Stem. -57

Bottom Reading 512° Cor'd Temp. 50.5

Temp. Surf. { _____ Time 5:15 P { Air { _____
 { _____ Time _____ { _____

Density: Surf. 1.02423 fms. 1.02457

Wind: Direction SW Force 1

Baromet. _____ Amt. of Clouds 7 State of Sea _____

Weather b'f

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality _____

Position 26-27-115-13-0

Chart used: No. 798 H.O. Ed'n _____

Drift: Direction ? Distance ?

Depth of Haul bottom

Apparatus and Rig used 12' _____

weight, 1 mud' bag

Time towing h. 20 m.

Remarks:

Deck Officer _____ Recorder _____

| SOUNDING WIRE. | | | FMS. | DREDGING CABLE. | | |
|----------------|----------|-----|------|-----------------|----------|----|
| M. Down. | Up. | M. | | M. Down. | Up. | M. |
| 4 28 12 | 11 37 10 | | 0 | 5 12 50 | 11 25 | |
| 5 03 44 | 10 58 50 | | 100 | 16 30 | 10 45 | |
| 5 53 14 | 10 37 20 | | 200 | 20 50 | 10 30 00 | |
| 6 06 24 | 10 27 35 | 205 | 300 | 25 30 | 10 55 50 | |
| | | | 400 | 26 30 | 5 1 45 | |
| | | | 500 | 29 00 | 5 49 00 | |
| | | | 600 | | | |
| | | | 700 | | | |
| | | | 800 | | | |
| | | | 900 | | | |
| | | | 1000 | | | |
| | | | 1100 | | | |
| | | | 1200 | | | |
| | | | 1300 | | | |
| | | | 1400 | | | |
| | | | 1500 | | | |
| | | | 1600 | | | |
| | | | 1700 | | | |
| | | | 1800 | | | |
| | | | 1900 | | | |
| | | | 2000 | | | |
| | | | 2100 | | | |
| | | | 2200 | | | |
| | | | 2300 | | | |
| | | | 2400 | | | |
| | | | 2500 | | | |
| | | | 2600 | | | |
| | | | 2700 | | | |
| | | | 2800 | | | |
| | | | 2900 | | | |
| | | | 3000 | | | |
| | | | 3100 | | | |
| | | | 3200 | | | |
| | | | 3300 | | | |
| | | | 3400 | | | |
| | | | 3500 | | | |
| | | | 3600 | | | |
| | | | 3700 | | | |
| | | | 3800 | | | |
| | | | 3900 | | | |
| | | | 4000 | | | |
| | | | 4100 | | | |
| | | | 4200 | | | |
| | | | 4300 | | | |
| | | | 4400 | | | |
| | | | 4500 | | | |
| | | | 4600 | | | |
| | | | 4700 | | | |
| | | | 4800 | | | |
| | | | 4900 | | | |

Dredge } No. 5302 Date, 4, 1901
Hydrog. }
Sdg. Mch. Reel Shot Lead 20 lbs.
Turns 38 Cor'n Depth 38 fms.
Sdg. Cup Amt. Bot'm Sample
Character of Bottom
Thermom. { Make Instr. -1.26
No. 108013 Cor'n { Stem. -1.19
Bottom Reading 72.5 Cor'd Temp. 72.1
Temp. Surf. { 83° Time 6:47 a. } Air { 84°
92° Time 7:07 a. }
Density: Surf. 1.02288 fms.
Wind: Direction WSW Force 3
Baromet. 29.52 Amt. of Clouds 7 State of Sea S
Weather bc

Direction and Force of Current { Surface
Bottom

Tide

General Locality

Position 1-40 117-40

Chart used: No. 117 Ed'n

Drift: Direction Distance

Depth of Haul Bottom

Apparatus and Rig used AS Bafne

Time towing 15 m.

Remarks:

Deck Officer

Recorder

| SOUNDING WIRE. | | | | FMS. | DREDGING CABLE. | | | |
|----------------|---------|----|--|------|-----------------|-----|----|--|
| M. Down. | Up. | M. | | | M. Down. | Up. | M. | |
| 6 1/2 00 | 6 42 45 | | | 0 | 6 40 10 | 13 | 00 | |
| 6 42 00 | 6 42 30 | | | 100 | | 06 | 55 | |
| | | | | 200 | 6 57 00 | 06 | 20 | |
| | | | | 300 | | | | |
| | | | | 400 | | | | |
| | | | | 500 | | | | |
| | | | | 600 | | | | |
| | | | | 700 | | | | |
| | | | | 800 | | | | |
| | | | | 900 | | | | |
| | | | | 1000 | | | | |
| | | | | 1100 | | | | |
| | | | | 1200 | | | | |
| | | | | 1300 | | | | |
| | | | | 1400 | | | | |
| | | | | 1500 | | | | |
| | | | | 1600 | | | | |
| | | | | 1700 | | | | |
| | | | | 1800 | | | | |
| | | | | 1900 | | | | |
| | | | | 2000 | | | | |
| | | | | 2100 | | | | |
| | | | | 2200 | | | | |
| | | | | 2300 | | | | |
| | | | | 2400 | | | | |
| | | | | 2500 | | | | |
| | | | | 2600 | | | | |
| | | | | 2700 | | | | |
| | | | | 2800 | | | | |
| | | | | 2900 | | | | |
| | | | | 3000 | | | | |
| | | | | 3100 | | | | |
| | | | | 3200 | | | | |
| | | | | 3300 | | | | |
| | | | | 3400 | | | | |
| | | | | 3500 | | | | |
| | | | | 3600 | | | | |
| | | | | 3700 | | | | |
| | | | | 3800 | | | | |
| | | | | 3900 | | | | |
| | | | | 4000 | | | | |
| | | | | 4100 | | | | |
| | | | | 4200 | | | | |
| | | | | 4300 | | | | |
| | | | | 4400 | | | | |
| | | | | 4500 | | | | |
| | | | | 4600 | | | | |
| | | | | 4700 | | | | |
| | | | | 4800 | | | | |
| | | | | 4900 | | | | |

Dredge } No. 5303 Date, Aug 9, 1905
Hydrog. }

Sdg. Mch. Tanner Reel T.M. Shot/Lead 35 lbs.

Turns 34 Cor'n _____ Depth 34 fms.

Sdg. Cup tallow on lead Amt. Bot'm Sample plentiful

Character of Bottom bl. M.

Thermom. { Make M.J. Cor'n { Instr. _____
 { No. 108013 { Stem. _____

Bottom Reading 72° Cor'd Temp. 71.6

Temp. Surf. { 84° Time 8:25 } Air { 85°
 { 84° Time 8:45 } { 84°

Density: Surf. 1.01960 fms. 1.02386

Wind: Direction E.N.E. Force 3

Baromet. 29.54 Amt. of Clouds 3 State of Sea 1

Weather bc

Direction and Force of Current { Surface _____
 { Bottom _____

Tide _____

General Locality China Sea.

Position 21-44-00 N. - 114 48-00 - E

Chart used: No. 798 H.O. Ed'n _____

Drift: Direction 2 Distance ?

Depth of Haul bottom

Apparatus and Rig used as before

Time towing h. 1 1/2 m.

Remarks: _____

Deck Officer Mr. Cassidy Recorder C. H. Long

| SOUNDING WIRE. | | | | | FMS. | DREDGING CABLE. | | | | | |
|----------------|----|----|----------|----|------|-----------------|----|----------|----|----|----|
| A M. Down. | | | Up. A M. | | | A M. Down. | | Up. A M. | | | |
| 8 | 20 | 15 | | | 0 | 8 | 24 | 00 | 8 | 57 | 10 |
| 8 | 20 | 50 | 8 | 20 | 30 | 24 | 30 | 8 | 47 | 15 | |
| | | | | | 200 | | | | | | |
| | | | | | 300 | | | | | | |
| | | | | | 400 | | | | | | |
| | | | | | 500 | | | | | | |
| | | | | | 600 | | | | | | |
| | | | | | 700 | | | | | | |
| | | | | | 800 | | | | | | |
| | | | | | 900 | | | | | | |
| | | | | | 1000 | | | | | | |
| | | | | | 1100 | | | | | | |
| | | | | | 1200 | | | | | | |
| | | | | | 1300 | | | | | | |
| | | | | | 1400 | | | | | | |
| | | | | | 1500 | | | | | | |
| | | | | | 1600 | | | | | | |
| | | | | | 1700 | | | | | | |
| | | | | | 1800 | | | | | | |
| | | | | | 1900 | | | | | | |
| | | | | | 2000 | | | | | | |
| | | | | | 2100 | | | | | | |
| | | | | | 2200 | | | | | | |
| | | | | | 2300 | | | | | | |
| | | | | | 2400 | | | | | | |
| | | | | | 2500 | | | | | | |
| | | | | | 2600 | | | | | | |
| | | | | | 2700 | | | | | | |
| | | | | | 2800 | | | | | | |
| | | | | | 2900 | | | | | | |
| | | | | | 3000 | | | | | | |
| | | | | | 3100 | | | | | | |
| | | | | | 3200 | | | | | | |
| | | | | | 3300 | | | | | | |
| | | | | | 3400 | | | | | | |
| | | | | | 3500 | | | | | | |
| | | | | | 3600 | | | | | | |
| | | | | | 3700 | | | | | | |
| | | | | | 3800 | | | | | | |
| | | | | | 3900 | | | | | | |
| | | | | | 4000 | | | | | | |
| | | | | | 4100 | | | | | | |
| | | | | | 4200 | | | | | | |
| | | | | | 4300 | | | | | | |
| | | | | | 4400 | | | | | | |
| | | | | | 4500 | | | | | | |
| | | | | | 4600 | | | | | | |
| | | | | | 4700 | | | | | | |
| | | | | | 4800 | | | | | | |
| | | | | | 4900 | | | | | | |



$$15 \div 2 = 7.5$$

$$2 \div 2 = 1$$

$$100 \div 3 = 33.3$$

$$2 \div 2 = 1$$

$$100 \div 3 = 33.3$$

$$\begin{array}{r}
 142 \\
 \underline{23} \\
 281 \\
 \underline{13}
 \end{array}$$